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**record of observations at
meanook magnetic observatory 1970**

A. B. COOK

DEPARTMENT OF ENERGY, MINES AND RESOURCES

OTTAWA, CANADA 1973

The circuit is designed to provide a reliable and accurate measurement of the input signal. It consists of a series of stages, each performing a specific function. The first stage is a pre-amplifier, which provides a high input impedance and a low output impedance. This is followed by a series of amplifiers, each with a different gain and bandwidth. The final stage is a buffer, which provides a high output impedance and a low input impedance. The circuit is designed to be easy to use and to provide accurate results.

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Geographic Coordinates: 54° 37'N; 113° 30'W

Geomagnetic Coordinates: 61.8°N; 301.0°E

Officer-in-Charge: Anne B. Cook

Introduction

Meanook magnetic observatory was established in July 1916, 85 miles north of the city of Edmonton, Alberta, 11 miles south of the town of Athabasca, Alberta. The observatory is controlled by the Division of Geomagnetism of the Earth Physics Branch, Department of Energy, Mines and Resources, Ottawa, Canada.

Equipment

Variometers. The basic observatory equipment was unchanged from that described in the preceding publication, "Record of Observations at Meanook Magnetic Observatory, 1969".

The scale values adopted for the primary (Ruska) magnetograms are listed with the adopted baselines.

The scale values per mm adopted for the laCour variometers were constant throughout the year, as follows:

	H	D	Z
laCour standard	7.18 γ	0.93'	10.36 γ
laCour low-sensitivity	21.67 γ	2.35'	37.47 γ

In addition to the photographic variometers, a three-component recording fluxgate magnetometer¹ provides a visible record of X, Y and Z at a chart speed of 20 mm per hour. The scale value is normally 8.3 γ per mm, corresponding to a full-scale of 1000 γ in each component. By means of a limit switch and a relay, the sensitivity of the recorder is cut in half whenever any element exceeds full-scale indication, thus automatically converting the instrument into a storm recorder.

Absolute instruments. The absolute instruments used at Meanook during 1970 were: Cooke magnetometer No. 15 (with correction of -0.3') for declination; quartz horizontal intensity magnetometer No. 259² (with correction of -0.00013H) for horizontal intensity; Ruska earth inductor No. 6540 (with correction of 0.0') for inclination; and a Dominion Observatory proton precession magnetometer³, (4257.60 cps/oersted for total intensity)⁴.

Absolute observations and baseline values

Absolute observations were made twice a week, on the average. Baseline values for the vertical intensity were computed from the readings of the proton precession magnetometer and the earth inductor by the formula $Z = F \sin I$.

The rms value of the observed minus adopted baselines is ± 0.2 minute for declination, ± 1 gamma for the horizontal component, and ± 2 gammas for the vertical component.

Notes on the tables

Universal time (U.T.) is used throughout. Tables 1-36 show the mean values of H, D and Z for the intervals of 60 minutes centred on the half hour.

Reductions. The hourly values of H, D and Z are scaled manually in mm, and punched on cards. The tables were calculated by a CDC 6400 computer. The computer was programmed so that the output was compatible with offset printing techniques.

Table 46 lists three-hour range indices and K-indices for Meanook. Lower limit K_9 is 1500 γ . Throughout the year, these indices are sent twice a month to DeBilt, Netherlands, and Göttingen, Germany, for use in preparation of planetary K-indices published by the International Association of Geomagnetism and Aeronomy (IAGA).

The magnetograms were read each month for magnetic phenomena and the results sent to IAGA Commission IV. Copies of mean hourly values were sent each month to the World Data Center for Geomagnetism at Boulder, Colorado. Maximum hourly ranges in all components were also scaled. Copies of hourly ranges, three-hour indices and magnetograms were sent to the Defence Research Telecommunication Establishment and upon request to various scientific research institutions.

H Baselines γ			H Scale Value γ /mm			D Baselines			D Scale Value γ /mm		
		Adopted	Adopted	Observed		Adopted	Adopted	Observed			
Jan.	1-2	13062	Jan.	10.29	10.17	Jan.	1-2	23° 09.3'	Jan.	1.60'	1.61'
	2-10	13061					3-12	09.2			
	11-31	13061					13-31	09.1			
Feb.	1-9	13060	Feb.	10.29	10.14	Feb.	1-23	09.1	Feb.	1.60	1.61
	10-28	13061					24-28	09.0			
Mar.	1-31	13060	Mar.	10.29	10.14	Mar.	1-8	09.0	Mar.	1.60	-
Apr.	1-19	13060	Apr.	10.29	10.00		9-15	08.9			
	20-25	13059					16-17	09.0			
	26-30	13058					18-19	09.1			
May	1	13058	May	10.29	10.26		20	09.2			
	2-6	13057					21-22	09.3			
	7-12	13056					23	09.4			
	13-26	13055					24-25	09.5			
	27-31	13056					26	09.6			
June	1-22	13056	June	10.29	10.38		27-28	09.7			
	23-30	13057					29	09.8			
July	1-11	13057	July	10.29	10.31	Apr.	30-31	09.9	Apr.	1.60	1.61
	12-17	13058					1	10.0			
	18-26	13057					2-3	10.1			
	27-31	13056					4	10.2			
Aug.	1-3	13056	Aug.	10.29	10.24		5-6	10.3			
	4-12	13055					7	10.4			
	13-17	13054					8-9	10.5			
	18-21	13053					10	10.6			
	22-25	13052					11-12	10.7			
	26-27	13051					13	10.8			
	28-31	13050					14	10.9			
Sept.	1	13050	Sept.	10.29	10.46		15	11.0			
	2-4	13049					16-29	10.9			
	4-7	13048					21-23	10.8			
	8-11	13047					24-29	10.7			
	12-16	13046					30	10.6			
	17-21	13045				May	1-3	10.6	May	1.60	1.61
	22-26	13044					4-8	10.5			
	27-30	13043					9-12	10.4			
Oct.	1-6	13042	Oct.	10.29	10.20		13-19	10.3			
	7-12	13041					20-28	10.4			
	13-31	13040					29-31	10.5			
Nov.	1-17	13040	Nov.	10.29	10.31	June	1-6	10.5	June	1.62	1.61
	18-22	13039					7-14	10.6			
	23-29	13038					15-23	10.7			
	30	13037					24-30	10.8			
Dec.	1-5	13037	Dec.	10.29	-	July	1-5	13.5	July	1.62	1.61 Shift
	6-10	13036					6-19	13.4			in D bas
	11-31	13035					20-30	13.3			00:00
							31	13.3			July 1
						Aug.	1-10	13.2	Aug.	1.64	1.61
							11-17	13.1			
							18-22	13.0			
							23-27	12.9			
							28-31	12.8			
						Sept.	1-2	12.8	Sept.	1.62	1.61
							3-7	12.7			
							8-14	12.6			
							15-17	12.5			
							18-24	12.4			
							25-30	12.3			

D Baselines			D Scale Value γ /mm			Z Baselines γ			Z Scale Value γ /mm		
Adopted			Adopted		Observed	Adopted			Adopted		Observed
Oct.	1	23° 12.3'	Oct.	1.64'	1.61'	May	1-2	58498	May	9.42	9.39
	2-6	12.2					3-5	58497			
	7-12	12.1					6-8	58496			
	13-17	12.0					9-11	58495			
	18-22	12.1					12-21	58494			
	23-27	12.2					22-27	58495			
	28-31	12.3					28-31	58496			
Nov.	1-5	12.4	Nov.	1.58	1.61	June	1-4	58496	June	9.42	9.46
	6-8	12.5					5-9	58497			
	9-14	12.6					10-14	58498			
	15-22	12.7					15	58499			
	23-25	12.6					16-17	58498			
	26-29	12.5					18-20	58497			
	30	12.4					21-23	58496			
Dec.	1-5	12.4	Dec.	-	1.61		24-25	58495			
	6-12	12.3					26-28	58494			
	13-25	12.2					29-30	58493			
	26-31	12.1				July	1	58493	July	9.42	9.42
							2-3	58492			
							4-5	58491			
							6-8	58490			
							9-10	58489			
							11-13	58488			
							14-16	58487			
							17-20	58486			
							21-23	58485			
							24-27	58484			
							28-30	58483			
							31	58482			
						Aug.	1-3	58482	Aug.	9.42	9.51
							4-7	58481			
							8-10	58480			
							11-13	58479			
							14-17	58478			
							18-26	58478			
							27-31	58480			
						Sept.	1-7	58480	Sept.	9.42	9.56
							8-19	58481			
							20-27	58480			
							28-30	58479			
						Oct.	1-5	58479	Oct.	9.42	9.68
							6-14	58478			
							15-20	58477			
							21-26	58476			
							27-31	58475			
						Nov.	1-2	58475	Nov.	9.42	9.41
							3-8	58474			
							9-20	58473			
						Dec.	1-31	58473	Dec.	9.42	-

Z Baselines γ			Z Scale Value γ /mm		
Adopted			Adopted		Observed
Jan.	1-2	58498	Jan.	9.42	9.19
	3	58499			
	4-6	58500			
	7	58501			
	8-9	58502			
	10-12	58503			
	13	58504			
	14-18	58505			
	19-31	58506			
Feb.	1	58506	Feb.	9.42	9.39
	2-13	58507			
	14-22	58508			
	23-28	58509			
Mar.	1	58509	Mar.	9.42	9.34
	2-8	58510			
	9-17	58511			
	18-21	58510			
	22-25	58509			
	26-29	58508			
	30-31	58507			
Apr.	1	58507	Apr.	9.42	9.40
	2-5	58506			
	6-9	58505			
	10-13	58504			
	14-16	58503			
	17-19	58502			
	20-23	58501			
	24-26	58500			
	27-29	58499			
	30	58498			

Mean annual values

Year	D(E)	H	Z	X*	Y*(E)	I*(N)	F*
1957	24° 23.1	12921	58801	11768	5335	77° 36.4	60204
1958	15.0	12943	58819	11801	5316	35.4	60226
1959	13.0	12960	58787	11819	5316	34.1	60198
1960	09.7	12985	58774	11848	5316	32.5	60192
1961	06.1	13022	58748	11887	5318	30.1	60175
1962	02.7	13054	58723	11921	5318	28.1	60156
1963	23° 58.7	13076	58711	11949	5314	26.5	60150
1964	54.9	13103	58694	11978	5312	24.9	60139
1965	51.7	13130	58672	12008	5312	23.1	60123
1966	49.6	13150	58663	12029	5312	21.9	60119
1967	47.2	13170	58663	12051	5312	20.8	60123
1968	45.0	13197	58659	12079	5315	19.4	60125
1969	42.1	13234	58662	12118	5320	17.2	60136
1970	39.8	13265	58672	12150	5324	15.6	60153

*X, Y, I, F are derived from annual means D, H and Z.

References

- ¹Serson, Paul H. 1967. An electrical recording magnetometer. *Can. J. Phys.*, Vol. 35, pp. 1387-1394.
- ²laCour, D. and E. Sucksdorff. 1936. Le quartz-magnetomètre QHM. *Commun. No. 15*, 22 pp., No. 16, 11 pp. Danish Meteorol. Inst., Copenhagen.
- ³Serson, Paul H. 1962. A simple proton precession magnetometer. Report Dominion Observatory, Ottawa, 13 pp.
- ⁴U.G.G.I., Helsinki. 1960. Résolution N° 66, *Comptes Rendus de la XII^e Assemblée générale.*

HORIZONTAL INTENSITY

TABLE 1 MEANOOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

JANUARY 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		268	270	271	270	267	256	258	267	268	269	271	270	261	267	271	278	258	248	270	264	254	256	263	269	265
2	D	267	268	266	277	307	275	245	27	115	214	247	31	50	143	216	217	257	265	266	235	236	245	266	257	216
3		267	275	267	263	264	264	254	254	236	237	230	248	253	255	263	268	238	247	246	244	245	245	249	257	254
4	Q	263	262	264	266	267	266	267	265	258	249	255	257	265	264	266	267	267	262	258	255	255	254	250	258	261
5		264	266	265	266	265	264	267	267	265	258	246	267	266	258	261	268	273	268	265	263	262	263	264	259	263
6		255	267	272	272	271	267	266	266	266	267	268	258	248	257	262	263	255	254	245	250	255	259	265	266	261
7		267	269	269	268	276	272	270	269	268	268	275	272	267	266	267	266	258	246	233	234	248	258	257	258	262
8		263	267	267	266	266	267	267	268	267	265	257	269	269	267	268	267	263	255	264	266	268	268	270	275	266
9	D	258	260	269	268	263	258	270	267	279	257	265	265	266	262	259	260	255	249	254	257	265	260	259	257	262
10		255	267	271	274	269	267	266	263	261	262	265	259	264	263	267	262	255	248	249	250	248	255	259	265	261
11	Q	265	266	266	267	266	268	267	266	265	265	266	265	264	265	264	266	256	246	250	254	257	260	266	263	262
12		256	258	266	267	268	267	266	264	263	257	258	265	267	265	265	264	256	245	245	256	257	252	256	266	260
13	Q	266	266	272	271	268	267	267	267	267	267	267	267	266	266	261	247	256	254	257	260	262	265	268	266	264
14		267	266	267	266	270	275	276	273	267	266	265	266	265	265	260	265	266	234	250	246	250	258	264	267	264
15		274	279	277	286	285	285	278	277	275	273	272	275	275	273	268	264	253	238	243	246	247	248	253	258	267
16	D	266	262	257	266	267	274	260	250	223	138	80	79	148	195	172	191	182	186	213	211	214	223	263	297	215
17	D	355	328	370	387	347	337	284	256	246	241	245	253	247	254	256	256	249	245	236	232	226	237	245	250	274
18		253	247	257	262	265	265	258	254	257	256	244	254	266	264	263	265	237	256	245	244	245	245	245	249	255
19		257	260	266	270	268	267	266	265	264	258	265	266	267	266	263	254	257	246	237	236	238	235	242	254	257
20		264	256	258	257	265	264	264	265	261	258	266	265	265	265	244	254	275	267	257	250	243	234	245	250	258
21		265	266	267	269	266	259	269	268	265	261	257	263	267	251	257	268	257	245	243	242	244	246	256	264	256
22		257	268	266	267	266	268	266	266	267	266	265	264	268	269	268	265	254	247	246	247	248	253	257	260	261
23		264	265	258	254	261	262	266	266	264	266	265	266	266	270	270	268	264	256	251	247	247	254	254	256	261
24		260	263	265	266	266	266	264	247	243	238	257	244	264	266	269	268	263	258	253	254	245	238	253	256	257
25	Q	264	266	266	266	266	260	266	266	266	266	266	266	266	266	266	266	260	249	248	248	254	256	264	267	262
26	Q	268	267	266	266	268	267	267	266	265	266	265	266	268	272	271	267	256	243	236	238	245	254	258	264	261
27		266	267	266	265	275	274	268	268	267	265	267	266	269	272	270	273	264	254	251	245	246	251	259	263	264
28		265	266	268	274	275	275	275	275	275	274	276	275	275	276	280	279	268	256	247	236	254	263	264	257	268
29		256	265	267	273	271	266	254	204	233	275	268	267	267	267	268	266	259	251	251	254	257	265	272	275	260
30	D	256	266	275	272	266	256	234	274	266	266	244	270	275	274	276	275	256	253	243	243	248	254	258	262	261
31		259	258	256	272	275	260	266	266	265	265	266	266	272	271	270	268	264	245	236	235	242	246	256	263	260
MEAN A		265	267	269	272	272	269	265	255	256	257	255	250	255	258	261	262	256	249	248	247	249	252	258	262	259
MEAN Q		265	265	267	267	267	265	267	266	264	263	264	264	266	266	263	264	258	251	250	252	255	258	261	263	262
MEAN D		280	276	287	294	290	280	259	215	226	233	216	180	197	226	236	240	240	240	243	236	238	244	258	264	246

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

DECLINATION

TABLE 2 MEANOOK

0 = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES

JANUARY 1970

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
UT	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	39.7	40.1	41.0	41.2	40.2	39.9	38.3	40.1	40.2	41.2	40.4	40.7	39.7	44.1	43.1	43.1	41.7	33.5	38.1	39.9	39.9	38.0	38.1	36.7	39.9	
2	D 38.3	39.6	40.5	41.8	54.9	44.7	42.8	36.5	36.5	50.8	45.2	47.9	39.7	41.0	51.2	36.8	38.4	42.9	41.8	41.5	39.9	38.8	38.0	42.8	42.2	
3	41.7	42.8	43.3	48.0	40.4	40.0	42.7	38.2	36.7	40.1	43.0	39.5	39.5	39.1	41.1	43.2	44.5	44.6	43.0	41.7	40.3	40.0	40.1	40.1	41.4	
4	Q 40.0	40.1	41.1	41.2	40.6	40.3	41.7	40.4	41.4	40.0	41.2	39.8	40.1	41.1	41.7	42.7	42.2	42.7	44.1	42.7	39.8	39.5	39.8	40.0	41.0	
5	39.8	40.0	41.4	41.6	40.9	39.8	39.6	40.1	41.1	42.8	40.9	44.8	44.3	43.0	41.4	43.2	43.3	43.0	41.9	39.8	36.6	38.2	39.3	39.1	41.1	
6	39.3	39.1	39.8	40.0	40.3	41.2	41.1	40.9	41.2	40.1	41.2	41.1	38.3	41.1	39.8	41.7	43.3	44.6	41.4	40.0	38.8	39.6	40.0	38.7	40.5	
7	39.8	39.6	40.6	41.1	40.1	40.0	40.1	39.8	39.6	41.4	41.2	41.1	41.2	41.9	41.6	41.9	43.2	43.0	39.8	31.6	34.8	41.6	41.7	41.7	40.3	
8	41.6	41.7	41.6	41.2	40.1	40.0	41.2	39.8	40.0	41.2	42.7	44.9	43.8	46.1	44.8	44.6	45.3	42.8	39.8	38.2	38.0	38.3	38.2	38.2	41.4	
9	D 38.0	41.1	40.0	41.2	41.4	36.4	36.7	36.6	38.3	41.4	41.6	43.3	43.2	43.2	43.2	46.1	44.3	40.0	35.6	36.4	37.9	38.2	38.5	39.1	40.1	
10	38.3	40.9	44.6	41.7	41.2	39.8	39.3	38.5	39.6	39.8	40.4	41.1	41.6	42.8	44.3	44.5	43.2	43.0	41.6	39.8	38.2	38.2	39.3	39.6	40.9	
11	Q 39.5	39.5	39.8	40.0	40.9	40.3	39.6	38.0	38.3	39.6	40.3	41.2	41.2	43.0	43.2	44.5	43.8	42.8	41.2	39.8	38.0	38.2	37.9	37.4	40.3	
12	39.5	41.6	40.9	42.7	41.4	41.1	40.8	43.0	43.2	43.2	43.0	45.1	43.2	43.2	43.5	44.3	45.9	44.5	39.5	37.5	37.2	37.4	37.2	39.8	41.6	
13	Q 39.7	41.0	41.5	41.0	40.5	41.0	40.0	41.1	39.9	40.5	41.3	41.5	41.3	43.1	40.7	40.3	41.0	41.9	39.4	39.0	38.1	38.9	39.4	40.8	40.5	
14	41.0	40.3	40.0	41.3	41.1	39.4	40.0	39.9	39.5	40.7	41.5	43.1	44.4	43.1	44.7	46.5	45.5	43.2	41.3	39.9	39.9	37.9	37.0	37.6	41.2	
15	37.3	37.6	38.4	41.3	39.9	39.5	39.4	40.0	41.0	40.7	41.1	41.5	42.3	42.7	43.1	44.4	46.5	46.3	42.7	40.0	39.4	38.1	37.9	37.0	40.7	
16	D 36.6	37.9	42.7	40.8	42.9	44.4	41.5	44.5	50.8	49.5	44.8	53.5	57.9	50.6	40.8	38.2	41.3	28.3	35.2	36.6	37.8	33.4	32.9	33.4	41.5	
17	Q 34.1	34.7	34.9	37.9	51.0	44.4	43.1	41.3	44.2	44.5	44.4	41.5	42.6	42.4	42.6	44.0	46.1	46.1	45.2	41.6	39.9	38.4	38.6	40.0	41.8	
18	39.7	39.9	41.0	40.0	39.9	41.0	39.7	41.3	39.7	41.1	41.5	42.4	42.1	41.1	41.6	43.1	42.9	44.5	45.2	43.1	41.3	40.8	39.9	39.5	41.3	
19	39.5	39.2	39.4	39.7	41.0	40.8	39.9	40.2	41.0	40.3	41.1	42.6	42.7	42.1	41.1	38.6	42.9	45.0	43.4	41.1	39.4	37.9	37.1	36.3	40.5	
20	38.1	38.4	40.2	41.0	41.1	39.9	39.7	39.9	39.7	41.5	44.2	45.5	42.7	41.0	39.4	46.0	47.3	45.2	43.6	42.9	37.0	34.9	37.6	39.4	41.1	
21	40.0	39.7	39.9	41.0	40.8	40.2	44.4	40.0	41.5	42.7	42.7	41.8	44.2	41.8	36.5	43.1	44.7	43.9	42.6	41.1	37.8	36.8	37.8	38.2	41.0	
22	41.1	39.9	40.0	41.0	40.8	40.8	40.2	40.0	40.2	39.9	39.7	41.5	41.5	42.9	43.2	44.4	45.3	45.0	42.6	39.9	38.1	37.6	38.4	40.2	41.0	
23	40.2	39.7	39.7	41.1	39.9	41.0	44.4	42.7	41.3	40.2	41.6	41.5	41.1	41.1	41.3	42.9	42.7	41.6	41.0	41.3	40.3	39.2	39.0	38.9	41.0	
24	40.2	39.7	40.3	40.5	40.5	41.0	40.3	43.2	49.8	47.4	36.1	42.9	31.8	45.5	43.1	43.6	44.2	43.2	40.7	40.0	39.0	38.1	36.8	38.1	41.1	
25	Q 40.0	40.5	41.1	41.0	41.8	42.3	40.3	39.9	39.7	39.7	39.9	40.3	40.5	40.7	41.0	42.7	44.4	43.4	41.6	39.9	38.2	38.1	38.2	38.7	40.6	
26	Q 39.4	40.0	41.0	41.5	41.1	40.7	40.0	40.0	38.4	39.5	41.0	41.3	42.6	41.8	42.7	44.5	46.3	44.8	43.1	40.5	38.6	38.7	39.5	39.9	41.1	
27	39.7	39.7	40.0	40.8	41.0	40.5	40.2	39.5	38.9	40.0	41.0	41.3	43.7	44.7	45.3	46.5	44.7	41.0	39.4	36.5	33.4	33.3	34.9	36.5	40.1	
28	36.8	39.5	40.8	41.1	41.0	40.8	40.8	40.5	40.3	40.5	41.1	41.3	41.3	41.5	42.7	44.8	47.6	46.3	43.9	38.1	37.9	36.8	38.6	39.2	41.0	
29	39.4	39.7	39.5	40.0	40.5	39.9	42.7	41.3	43.1	41.1	39.7	40.7	41.1	41.5	41.8	43.1	44.4	43.6	42.9	39.9	38.1	37.8	38.4	38.2	40.8	
30	D 38.4	39.4	40.0	41.3	41.1	41.8	48.5	43.1	40.8	38.7	36.5	42.9	45.8	42.7	42.9	44.7	42.6	47.7	46.6	38.1	36.6	36.8	36.5	37.0	41.3	
31	38.1	36.8	39.5	41.1	41.5	41.1	41.0	41.0	41.0	41.1	41.0	40.3	41.5	41.5	41.9	44.5	47.6	47.7	44.7	41.9	40.0	38.7	38.2	38.4	41.3	
MEAN A	39.2	39.7	40.5	41.1	41.6	40.8	41.0	40.4	40.9	41.7	41.3	42.5	42.2	42.6	42.4	43.3	44.1	43.1	41.7	39.7	38.4	38.0	38.2	38.7	41.0	
MEAN Q	39.7	40.2	40.9	40.9	41.0	40.9	40.3	39.3	39.5	39.9	40.7	40.8	41.1	41.9	41.9	43.0	43.5	43.1	41.9	40.4	38.5	38.7	39.0	39.3	40.7	
MEAN D	37.1	38.5	39.6	40.6	46.3	42.3	42.5	40.4	42.1	45.0	42.5	45.8	45.8	44.0	44.1	42.0	42.6	41.0	40.9	38.8	38.4	37.1	36.9	38.5	41.4	

HORIZONTAL INTENSITY

TABLE 4 MEANOOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

FEBRUARY 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		264	266	265	268	265	268	275	268	268	269	270	270	274	275	276	274	266	256	253	252	256	257	265	244	265
2	D	266	275	274	278	276	286	276	277	277	267	200	90	62	245	275	276	264	254	236	226	234	264	266	243	245
3		258	273	275	267	276	269	266	267	267	266	257	245	254	267	267	266	257	251	249	251	256	258	261	263	262
4	D	265	267	267	268	268	267	268	268	254	211	249	246	225	191	243	276	246	243	237	252	254	258	260	265	252
5		261	266	264	265	276	289	274	267	266	264	265	265	260	219	218	270	265	257	256	257	258	264	256	254	261
6		260	266	267	267	274	275	269	266	254	268	267	267	266	266	265	263	258	257	254	256	262	261	257	256	263
7	Q	258	265	265	266	266	266	266	266	266	266	266	266	266	265	263	254	246	236	230	236	248	259	265	265	259
8	Q	265	266	267	267	272	273	270	272	271	271	270	272	275	270	266	264	254	245	238	243	246	253	256	264	263
9		266	271	273	270	274	274	267	268	275	272	274	276	276	276	269	266	257	245	239	244	248	256	258	267	265
10		275	277	277	276	276	268	268	267	273	275	276	277	277	277	277	259	257	252	237	235	235	238	246	258	264
11	Q	266	269	269	275	275	269	269	268	267	265	267	268	269	270	268	266	257	247	239	236	237	234	246	257	260
12		266	270	276	277	277	276	275	274	274	275	276	277	276	276	275	273	266	257	245	238	239	245	254	258	266
13		267	275	277	284	285	277	279	278	277	277	278	278	278	277	278	287	277	264	250	248	248	257	265	266	272
14	D	268	273	275	257	269	266	266	260	266	258	207	196	268	263	259	264	277	268	254	247	255	259	258	259	258
15		261	265	262	257	264	264	265	251	265	255	206	236	279	275	269	265	258	246	239	235	245	258	265	265	256
16		266	268	269	274	275	276	275	268	267	268	269	259	257	268	267	276	277	268	258	254	252	257	254	257	266
17		267	275	277	278	278	277	276	276	277	278	268	269	278	279	280	277	258	227	234	218	236	247	253	247	264
18		255	264	263	268	259	278	276	258	257	266	277	269	267	244	216	260	261	245	235	244	249	253	249	247	257
19		258	261	268	270	274	276	276	277	269	268	267	261	263	268	267	266	258	248	240	237	246	257	258	258	262
20		264	267	269	270	275	276	276	275	275	274	275	277	276	276	267	267	266	258	248	246	248	258	259	263	267
21	Q	267	271	275	276	277	275	267	266	266	273	276	276	276	278	275	268	258	248	238	244	247	257	265	267	266
22	Q	267	269	276	276	277	277	275	276	277	277	277	278	277	277	276	269	267	258	248	245	250	250	252	258	268
23		264	267	276	277	277	277	278	277	278	277	278	278	278	279	278	278	267	258	238	241	254	266	271	267	270
24	D	274	276	276	271	268	275	267	265	266	277	278	285	284	289	296	278	285	247	254	246	244	246	254	258	266
25		266	267	269	275	274	277	269	273	277	277	276	275	277	278	277	270	265	258	248	245	246	253	257	264	267
26		265	265	259	266	266	262	251	246	226	219	194	186	138	123	214	187	265	255	237	237	236	239	246	257	231
27		258	260	260	263	266	267	265	255	227	248	234	248	266	257	267	268	265	247	242	236	237	235	245	266	253
28	D	269	309	307	268	275	278	236	281	277	257	198	163	186	235	268	268	257	235	218	226	230	244	246	275	252
MEAN A		264	270	271	270	273	273	271	268	266	265	257	252	255	259	265	266	260	251	243	242	246	253	257	259	261
MEAN Q		264	268	270	272	273	272	269	269	269	270	271	272	273	272	269	264	256	247	239	241	246	251	257	262	263
MEAN D		268	280	280	268	271	274	273	270	268	254	226	196	205	245	268	272	250	250	240	239	244	254	257	260	255

DECLINATION

TABLE 5 MEANOOK

D = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES

FEBRUARY 1970

DAY	HOUR UT	DECLINATION																						MEAN		
		0 TC 1	1 TO 2	2 TO 3	3 TO 4	4 TO 5	5 TC 6	6 TO 7	7 TO 8	8 TC 9	9 TO 10	10 TO 11	11 TO 12	12 TC 13	13 TO 14	14 TO 15	15 TO 16	16 TO 17	17 TC 18	18 TO 19	19 TO 20	20 TO 21	21 TO 22		22 TC 23	23 TO 24
1		38.6	39.4	41.1	40.0	44.7	42.7	39.7	39.9	39.7	39.9	40.2	41.0	41.1	41.3	41.6	44.2	46.6	47.3	44.7	42.6	40.8	38.4	36.6	33.4	41.1
2	D	33.4	39.4	39.4	39.5	46.1	42.6	41.3	40.8	44.0	41.8	54.0	51.4	48.1	39.5	44.4	46.5	45.8	44.5	40.8	38.1	36.1	38.2	35.5	38.1	42.1
3		38.6	36.5	40.8	41.3	41.9	41.0	41.1	41.1	41.0	41.1	41.1	41.6	39.7	41.5	41.6	43.1	44.7	44.4	42.6	41.3	40.3	39.7	39.9	39.7	41.1
4	D	39.5	39.5	39.4	39.7	40.3	39.9	40.8	39.7	42.7	44.8	43.1	46.1	38.1	32.9	44.8	44.7	41.0	41.1	39.7	36.5	36.8	39.5	41.1	39.9	40.5
5		38.4	37.9	39.7	41.3	44.7	40.7	38.4	39.5	40.2	40.5	41.3	41.8	41.5	38.9	34.7	44.7	42.9	43.1	41.6	38.6	37.9	36.5	37.8	39.5	40.1
6		39.0	38.4	39.5	41.1	41.6	39.5	39.7	39.4	36.6	40.8	41.0	41.3	41.3	41.1	41.5	42.6	43.1	42.7	39.9	38.2	37.8	38.4	39.7	39.7	40.2
7	Q	39.4	38.9	39.4	39.7	39.9	39.7	39.4	39.7	33.2	39.7	40.2	41.1	41.3	41.5	41.8	43.1	44.5	44.5	41.8	39.4	37.9	37.9	38.2	38.9	40.2
8	Q	38.9	38.9	38.9	39.4	39.5	39.7	39.7	39.4	38.9	39.5	39.9	41.1	41.5	41.3	41.5	42.9	42.7	39.7	37.8	36.3	36.5	36.8	38.1	38.2	39.5
9		38.1	38.2	39.4	39.7	39.7	39.5	40.7	41.6	38.2	39.7	40.7	41.0	41.3	42.3	43.1	44.8	46.3	46.1	41.9	39.4	37.1	37.0	38.1	39.2	40.5
10		39.0	39.4	39.5	40.0	40.0	40.8	39.7	38.2	39.9	39.5	40.0	41.0	41.1	41.1	42.3	41.3	37.9	39.9	33.4	36.5	36.8	38.2	38.1	38.2	39.2
11	Q	38.2	38.4	39.2	39.7	40.5	40.2	39.7	39.7	39.5	41.1	40.8	41.3	41.5	42.1	42.9	44.2	43.1	42.9	40.7	37.9	37.8	36.8	37.6	37.9	40.2
12		38.1	38.9	39.5	39.9	39.9	40.0	39.9	39.9	39.9	40.0	39.7	41.3	41.5	41.5	42.7	44.4	45.2	44.7	42.9	41.0	39.5	39.5	38.6	38.1	40.7
13		37.9	37.9	36.2	38.6	38.6	41.1	38.4	39.5	39.4	39.7	40.0	40.5	39.9	41.0	43.1	46.3	46.5	44.5	41.8	39.9	38.1	37.9	37.9	38.1	40.2
14	D	37.9	38.1	38.4	39.7	37.8	41.1	40.0	41.6	41.5	39.4	44.7	48.2	44.0	41.6	37.3	35.2	38.2	39.7	42.6	41.8	40.0	39.4	39.7	39.7	40.3
15		39.2	39.2	38.6	39.5	40.3	43.1	39.9	41.5	41.8	41.0	38.6	38.4	43.2	42.9	41.5	41.5	43.7	42.7	38.1	38.2	37.9	38.1	36.6	38.1	40.2
16		39.4	38.7	39.4	39.5	39.5	39.5	39.7	44.4	44.7	43.1	42.6	40.2	39.4	41.1	41.3	41.5	42.6	40.0	39.9	39.4	39.5	38.2	35.5	38.4	40.5
17		38.1	38.4	39.0	39.5	39.7	39.7	39.7	39.9	39.9	41.1	44.4	46.1	44.6	44.2	43.9	44.2	44.7	44.5	42.6	29.9	31.6	37.8	39.5	40.0	40.5
18		39.5	37.8	38.9	39.0	44.4	41.0	39.4	38.4	39.9	39.9	44.4	43.1	42.9	41.3	39.9	39.7	45.2	42.9	40.7	38.6	37.1	37.0	38.1	39.5	40.3
19		39.4	39.4	39.5	39.7	39.7	39.9	39.7	39.2	38.6	39.5	41.0	39.5	39.5	41.0	41.5	43.6	44.7	44.7	42.9	40.2	37.9	37.6	38.1	38.6	40.2
20		38.4	38.1	38.2	39.0	39.5	39.7	39.7	39.5	39.7	39.9	41.0	41.1	41.5	42.4	41.3	42.4	44.7	44.4	41.1	38.1	37.0	36.6	38.1	38.7	40.0
21	Q	38.2	38.2	38.2	39.4	39.5	39.7	39.5	39.5	39.7	41.3	41.3	41.3	41.3	41.3	41.9	42.9	44.5	44.7	41.6	38.1	37.3	36.5	36.6	37.6	40.0
22	Q	38.1	38.1	38.1	39.4	39.4	39.4	39.5	39.5	39.7	39.9	39.9	39.7	39.9	41.1	42.1	44.2	45.8	46.1	43.1	39.2	34.9	35.3	36.6	38.1	39.9
23		38.1	38.1	39.4	39.5	39.5	39.5	39.4	39.7	39.7	39.9	40.2	40.7	41.3	41.6	42.7	44.4	46.1	46.0	42.6	39.9	39.0	37.4	37.1	38.2	40.4
24	D	38.1	38.4	39.4	39.7	39.4	39.5	38.7	42.6	42.9	39.7	39.5	40.7	40.5	41.1	42.6	42.9	31.8	35.0	34.5	37.9	37.8	36.1	37.9	39.7	39.0
25		39.0	39.4	38.7	39.2	39.5	39.7	39.5	41.3	39.9	39.9	41.0	41.1	41.5	41.6	42.9	44.5	44.2	43.9	43.1	40.7	38.4	38.1	37.9	38.1	40.5
26		38.4	38.2	38.4	38.1	37.6	40.3	41.1	46.3	47.6	50.8	52.2	54.0	53.2	56.9	52.2	41.3	47.7	46.1	42.6	41.0	39.9	39.7	39.4	39.0	44.3
27		39.4	39.5	39.7	40.0	40.0	39.7	39.4	39.7	41.0	45.2	44.7	47.4	41.8	41.9	42.3	44.5	44.2	39.5	39.9	39.9	36.5	34.7	32.1	33.3	40.3
28	D	33.1	33.1	35.0	39.4	39.9	41.1	39.7	37.9	42.7	42.9	46.0	53.9	51.6	49.5	44.8	44.7	49.0	46.1	41.3	39.7	36.5	34.5	35.0	33.1	41.3
MEAN A		38.3	38.4	39.0	39.7	40.5	40.4	39.8	40.3	40.6	41.1	42.3	43.1	42.3	42.0	42.3	43.2	43.6	43.3	40.9	38.9	37.7	37.6	37.8	38.2	40.5
MEAN Q		38.6	38.5	38.8	39.5	39.8	39.7	39.6	39.6	39.2	40.3	40.4	40.9	41.1	41.5	42.0	43.5	44.1	43.6	41.0	38.2	36.9	36.7	37.4	38.1	39.9
MEAN D		36.4	37.7	38.3	39.6	40.7	40.8	40.1	40.5	42.8	41.7	45.5	48.1	44.5	40.9	42.8	42.8	41.2	41.3	39.8	38.8	37.4	37.6	37.9	38.1	40.6

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

VERTICAL INTENSITY

TABLE 6 MEANOOK

Z = 58000 PLUS TABULAR VALUES IN GAMMAS

FEBRUARY 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
1		666	668	674	673	677	676	665	664	665	664	663	663	664	664	665	666	667	666	666	666	665	665	664	664	667	
2	D	669	669	670	670	706	704	694	688	669	646	574	458	521	640	657	660	658	666	668	675	677	694	693	713	656	
3		705	694	686	686	685	678	669	667	665	665	657	615	631	651	664	665	667	668	667	667	668	669	668	667	664	
4	D	667	666	666	667	667	666	669	666	655	656	659	647	622	562	598	646	635	651	668	667	670	678	677	684	655	
5		678	678	685	686	687	673	677	669	669	665	662	660	657	613	601	658	664	666	669	668	667	671	676	684	666	
6		678	674	668	669	669	667	671	669	656	669	670	667	666	666	666	668	668	667	665	662	663	666	662	666	667	
7	Q	666	662	663	663	663	663	662	662	662	662	662	662	662	662	665	662	663	662	662	665	667	668	667	666	664	
8	Q	666	665	665	662	664	663	661	663	663	663	663	663	662	662	661	661	662	662	662	666	668	669	670	669	664	
9		667	667	667	667	666	667	669	667	666	666	665	665	663	662	662	664	666	665	660	665	667	667	667	667	666	
10		663	663	663	663	664	665	666	655	660	665	665	665	663	662	660	654	643	632	635	646	658	661	667	667	659	
11	Q	665	665	664	664	662	663	665	666	651	653	659	666	665	665	665	664	663	659	659	661	665	667	669	668	663	
12		667	666	665	663	663	662	661	661	661	660	658	659	659	660	661	662	666	667	670	675	676	675	668	666	665	
13		666	666	665	661	665	668	666	665	665	662	660	659	656	639	642	656	657	657	658	660	664	666	665	663	661	
14	D	662	662	666	687	697	697	679	658	648	647	591	543	638	631	638	639	659	662	669	670	669	669	668	668	655	
15		667	668	669	676	676	678	650	640	658	647	562	610	666	657	661	662	667	667	668	667	669	669	668	667	658	
16		664	665	665	666	666	667	668	668	658	659	659	651	638	632	629	644	658	658	656	661	664	668	669	668	658	
17		666	667	667	667	666	666	665	665	664	659	630	646	659	661	662	666	662	661	676	698	690	695	687	679	668	
18		678	684	679	678	689	687	685	649	651	650	668	666	659	640	619	651	664	663	669	678	679	678	678	677	667	
19		677	676	668	668	667	669	668	659	659	668	667	657	658	659	667	669	671	670	671	675	670	667	666	668	667	
20		668	665	664	664	665	666	666	665	665	662	664	665	661	661	662	661	665	666	667	669	669	668	666	667	665	
21	Q	668	668	668	667	665	667	668	662	658	664	667	665	666	666	666	665	666	666	664	668	668	668	668	667	667	666
22	Q	668	668	665	666	666	666	660	660	659	659	659	659	660	662	661	662	663	663	659	661	666	666	666	663	668	663
23		666	666	664	664	660	663	660	660	660	660	660	660	661	663	664	668	669	669	665	667	667	663	661	661	663	
24	D	660	659	658	660	660	661	660	656	651	659	658	660	659	661	660	660	621	620	635	650	664	673	674	670	656	
25		669	668	667	667	665	664	660	659	658	659	660	662	663	663	663	663	663	663	663	665	669	670	668	668	664	
26		668	669	670	672	678	678	670	643	593	575	550	555	513	537	576	604	630	689	686	688	690	692	691	687	640	
27		680	678	676	672	670	671	670	678	648	643	604	623	648	641	659	667	671	669	669	671	678	688	690	704	665	
28	D	708	747	756	706	686	696	697	696	694	677	620	544	561	598	658	667	669	669	678	687	683	688	686	688	673	
MEAN A		671	672	672	671	672	672	669	664	658	657	644	636	643	644	650	659	662	662	664	669	670	673	672	673	662	
MEAN Q		667	666	665	665	664	665	663	663	659	660	662	663	663	664	663	664	664	663	661	664	667	668	667	668	664	
MEAN D		673	681	683	679	683	685	680	673	663	657	620	570	600	618	642	654	648	654	664	670	673	680	679	685	659	

HORIZONTAL INTENSITY

TABLE 7 MEANOOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

MARCH 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		246	256	286	318	308	308	360	297	80	-104	13	132	212	141	91	174	230	260	243	237	245	249	268	285	216
2		276	296	296	285	303	306	294	265	212	79	-33	164	256	283	275	268	257	253	247	244	243	246	264	265	243
3		248	266	275	269	274	275	269	266	140	214	276	283	275	267	266	264	253	228	227	223	226	250	260	256	252
4		267	267	266	273	274	276	277	269	173	100	194	48	81	152	172	194	224	235	195	205	217	221	245	284	213
5		276	266	262	268	277	283	284	277	268	285	284	282	277	277	276	274	266	244	219	214	225	216	242	275	263
6	D	284	329	318	265	263	260	258	253	202	151	-148	192	276	277	268	260	234	223	214	224	233	265	316	417	243
7	D	327	298	399	366	346	256	246	161	90	-11	-129	-145	-44	-104	-65	76	212	193	127	143	236	236	258	309	157
8	D	286	306	315	306	264	277	204	-126	-75	-357	-532	-77	14	15	---	---	107	315	76	11	243	463	297	264	---
9	D	253	280	369	370	351	272	180	172	182	138	114	102	71	-22	161	151	39	153	216	205	203	211	246	235	196
10		257	235	254	244	245	244	245	247	234	228	226	238	245	252	247	245	236	225	202	205	208	212	225	234	235
11		236	243	244	245	253	253	253	253	253	254	256	256	256	254	244	256	250	234	218	214	215	227	238	236	244
12		253	257	259	252	256	260	250	218	224	182	140	231	266	276	269	265	260	246	234	233	234	239	245	252	242
13		256	263	264	265	266	267	266	267	268	260	152	266	273	246	245	259	268	254	235	223	216	227	243	248	250
14		261	258	257	262	265	266	266	267	266	267	268	266	266	267	266	266	257	252	237	234	233	233	236	246	257
15		257	265	258	263	264	264	264	257	260	262	245	266	263	268	268	246	258	243	223	224	227	235	243	247	253
16	Q	260	265	265	266	267	267	269	267	266	267	266	269	269	268	268	267	263	246	235	234	236	237	245	251	259
17		261	256	270	270	273	276	274	276	277	279	280	282	284	275	272	273	274	257	247	242	243	245	250	249	266
18		251	258	271	272	271	272	267	274	276	275	262	242	245	266	268	262	251	249	239	241	245	245	261	256	259
19		258	260	266	266	266	269	266	266	274	276	276	276	274	266	276	277	269	265	254	245	245	239	235	245	263
20		266	266	268	271	271	271	270	267	274	272	275	271	265	267	274	272	254	262	240	235	236	241	245	257	262
21	Q	256	266	266	270	271	270	273	273	272	272	266	274	275	277	274	266	260	250	237	235	236	243	243	253	262
22	Q	260	266	269	274	274	274	273	275	276	275	266	264	275	277	276	271	260	253	243	240	237	238	245	253	263
23		258	266	266	269	274	276	278	277	268	253	277	286	281	277	277	276	276	267	250	238	235	235	244	254	265
24	Q	265	267	272	271	275	275	277	278	278	281	283	284	286	290	290	286	272	260	244	237	243	243	244	256	269
25	Q	265	269	275	275	276	275	275	275	276	280	286	285	286	285	284	279	275	266	247	245	244	243	247	260	270
26		267	276	277	276	269	269	275	276	278	284	286	286	286	286	281	270	267	257	246	245	245	250	253	256	269
27		266	275	276	277	278	278	284	298	307	287	242	297	307	296	286	277	268	251	246	243	246	265	276	260	274
28		257	265	288	263	285	253	203	257	224	-36	-146	-71	174	194	181	215	297	258	254	252	257	285	297	285	206
29		265	306	318	330	317	297	254	87	232	273	259	236	155	226	234	186	235	242	237	233	235	245	267	315	249
30		317	276	265	266	264	297	296	267	118	234	174	92	131	148	284	257	238	249	245	240	242	245	263	265	236
31	D	266	277	267	285	283	286	230	60	-32	20	-136	-83	154	162	-116	119	264	266	252	256	254	273	311	292	175
MEAN A		264	270	279	278	279	273	266	248	224	203	176	202	231	230	230	242	251	244	232	230	235	241	255	267	244
MEAN Q		261	266	269	271	273	272	273	274	274	275	273	275	278	280	279	274	266	254	241	238	239	241	245	255	264
MEAN D		283	296	338	321	311	268	228	162	111	74	-75	17	114	78	62	151	200	208	203	207	232	246	283	313	193

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

DECLINATION

TABLE 8 MEANOOK

D = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES

MARCH 1970

HOUR UT DAY	0		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		MEAN
	TC 1	TO 2	TC 3	TO 4	TC 5	TO 6	TC 7	TO 8	TC 9	TO 10	TC 11	TO 12	TC 13	TO 14	TC 15	TO 16	TC 17	TO 18	TC 19	TO 20	TC 21	TO 22	TC 23	TO 24	TC 25	TO 26	TC 27	TO 28	TC 29	TO 30	TC 31	TO 32	TC 33	TO 34	TC 35	TO 36	TC 37	TO 38	TC 39	TO 40	TC 41	TO 42	TC 43	TO 44	TC 45	TO 46	TC 47	TO 48	
1	33.2	33.3	34.6	32.8	33.3	39.4	41.2	49.6	30.1	27.5	28.8	47.3	50.7	51.2	28.0	36.7	48.3	47.8	46.2	42.6	38.0	36.2	34.9	34.4	38.6																								
2	35.1	35.1	38.0	34.8	39.6	44.4	41.4	42.6	43.1	49.3	38.1	36.2	42.3	43.3	44.4	46.0	49.6	49.3	47.5	43.9	39.8	37.8	36.0	34.9	41.4																								
3	37.8	38.0	38.3	39.4	39.6	39.8	41.0	39.6	39.4	36.4	42.5	43.0	42.6	43.1	43.0	45.7	49.3	49.4	44.1	42.5	36.5	33.5	35.9	35.7	40.7																								
4	36.0	36.9	38.1	38.1	40.1	39.6	41.0	40.7	34.8	31.9	43.0	47.6	26.5	41.5	36.2	37.8	42.8	44.3	37.5	33.2	31.4	33.3	34.4	36.5	37.6																								
5	34.9	34.1	37.5	38.3	39.6	39.9	41.2	40.9	42.8	39.9	41.0	43.0	44.1	44.9	47.5	50.7	52.3	53.9	49.6	40.6	38.0	33.5	31.5	29.9	41.2																								
6	D 29.4	32.8	37.8	38.3	41.4	41.0	39.8	43.3	54.4	49.1	39.8	43.0	40.4	41.4	39.6	39.4	40.9	44.3	35.6	40.7	37.0	33.3	35.7	34.3	39.7																								
7	D 33.8	28.3	45.1	29.9	32.7	41.0	39.8	32.0	39.6	47.6	59.2	55.5	42.5	44.3	41.0	21.2	33.5	49.3	41.8	19.0	36.5	34.8	34.8	36.7	38.3																								
8	D 36.4	36.7	39.8	39.6	34.8	31.3	34.8	35.8	49.5	71.5	58.6	78.6	50.7	52.5	---	---	76.2	73.9	70.9	76.8	94.5	79.7	39.8	32.9	---																								
9	D 38.0	38.0	37.9	54.6	36.6	41.1	34.0	40.1	43.8	41.1	38.5	40.9	40.8	36.8	41.1	40.8	34.5	48.3	42.9	44.8	40.5	39.3	38.0	39.7	40.5																								
10	36.9	37.1	37.7	39.3	39.7	40.9	40.9	41.4	41.7	40.8	41.1	40.0	40.6	41.4	44.0	45.9	47.5	49.0	44.6	41.9	39.2	36.4	36.4	36.4	40.9																								
11	37.7	37.9	38.4	39.2	39.5	39.5	39.5	39.5	39.5	39.3	39.7	39.7	39.5	40.6	41.1	46.3	48.2	48.5	48.2	43.7	40.1	36.3	34.8	36.4	40.5																								
12	36.3	37.7	39.3	40.1	39.8	40.9	42.4	39.5	40.1	40.3	45.1	44.8	39.5	40.9	44.3	47.5	49.5	49.2	45.6	41.3	37.9	36.3	35.9	36.3	41.3																								
13	36.9	37.7	38.0	38.2	39.3	39.2	40.1	44.8	40.8	39.5	31.9	45.4	40.9	39.3	37.6	42.5	45.9	48.7	47.4	43.0	36.6	36.3	36.1	36.4	40.1																								
14	37.4	37.9	37.9	38.7	39.2	39.2	39.3	39.5	39.7	40.8	40.6	40.8	40.9	41.4	44.0	45.9	47.7	47.4	45.1	42.2	39.7	38.0	37.6	37.6	40.8																								
15	37.4	37.9	39.2	38.8	38.5	41.4	46.7	42.5	40.3	39.0	34.8	39.2	40.5	40.9	41.1	40.9	44.0	47.5	44.5	39.8	36.3	36.3	36.4	37.7	40.1																								
16	Q 36.9	37.8	38.3	38.8	38.9	39.3	39.4	40.2	40.4	41.2	40.2	39.8	40.6	41.7	43.8	45.2	47.2	46.7	43.5	39.9	37.8	36.2	34.9	35.7	40.2																								
17	35.9	36.0	36.5	37.8	37.8	38.0	39.6	38.8	39.3	39.6	39.9	40.6	38.9	40.2	43.0	48.1	47.2	47.8	42.0	40.2	38.9	38.0	37.2	37.5	40.0																								
18	36.1	38.1	38.1	38.4	39.0	38.9	39.2	39.7	39.9	40.2	41.3	42.3	48.5	43.7	44.5	46.5	44.5	43.6	39.9	35.7	34.9	34.9	36.1	36.5	40.1																								
19	36.5	37.0	38.4	38.7	38.9	38.7	38.9	45.3	43.4	41.1	41.3	39.9	39.7	40.0	43.9	46.5	46.1	45.2	43.2	41.3	39.5	36.6	36.5	36.3	40.5																								
20	36.6	36.7	37.9	38.2	38.8	39.0	39.5	39.6	39.8	40.0	40.4	40.0	39.8	42.7	45.9	47.5	47.8	48.2	42.2	40.0	37.5	35.6	34.8	35.0	40.1																								
21	Q 35.1	35.1	35.9	38.0	38.9	39.1	38.4	38.3	39.7	40.5	40.5	40.7	40.9	41.5	43.3	42.5	42.1	42.8	39.2	38.0	35.4	34.3	34.4	35.2	38.7																								
22	Q 35.7	36.7	36.8	37.5	38.8	38.9	38.8	41.5	41.5	40.2	39.9	36.7	41.2	42.9	44.7	46.3	46.3	47.3	45.0	41.2	37.8	35.1	35.1	35.9	40.1																								
23	35.3	36.1	36.8	37.3	38.1	38.4	38.9	39.0	46.4	42.6	42.9	41.0	41.4	43.4	43.7	45.9	45.6	46.3	45.6	39.8	36.8	34.5	34.4	35.3	40.2																								
24	Q 35.9	36.9	37.5	38.3	38.6	39.3	39.3	39.9	40.3	40.3	41.1	41.1	41.7	42.7	45.1	48.0	48.5	48.3	45.1	40.9	36.9	35.1	35.3	35.3	40.5																								
25	Q 35.4	36.7	37.4	38.2	38.6	38.8	40.3	40.7	41.4	40.4	40.9	40.6	41.2	41.5	43.5	46.0	46.7	47.7	46.2	43.1	39.6	37.0	35.6	35.3	40.5																								
26	35.4	37.0	38.4	38.3	38.9	38.4	38.6	39.9	40.5	41.6	41.6	41.8	43.1	43.6	46.3	47.8	46.3	47.9	45.0	42.1	38.6	37.0	36.8	36.8	40.9																								
27	37.1	37.4	38.4	38.8	39.6	40.1	40.0	39.5	39.5	43.2	48.2	54.5	51.7	50.3	51.7	51.2	50.9	50.0	43.5	39.0	35.6	35.9	33.9	32.7	42.6																								
28	33.9	33.5	38.5	48.2	41.6	53.0	45.0	45.3	43.7	51.9	74.7	56.4	49.8	46.7	43.3	46.7	43.5	43.0	43.8	43.0	38.4	35.8	34.5	32.6	44.4																								
29	33.8	32.7	34.1	33.8	45.2	40.6	43.6	35.2	40.6	41.0	41.8	41.0	37.3	38.5	42.3	40.4	41.7	40.6	45.9	37.0	37.3	34.0	32.5	30.9	38.4																								
30	34.1	36.8	37.3	38.9	40.0	38.9	39.0	36.9	30.8	43.8	43.9	51.1	64.3	47.3	45.0	49.8	46.8	46.9	48.2	42.4	39.0	36.9	35.7	36.5	41.9																								
31	D 37.3	37.3	38.7	38.9	41.8	40.0	37.3	46.0	33.6	50.2	54.0	70.9	55.1	55.0	67.4	49.8	45.5	45.6	41.9	36.8	34.4	34.1	33.9	35.8	44.2																								
MEAN A	35.8	36.1	37.9	38.6	39.1	40.2	40.1	40.7	40.4	41.2	42.6	44.1	42.9	43.1	43.7	44.5	45.7	47.1	44.0	40.0	37.5	35.7	35.3	35.5	40.5																								
MEAN Q	35.8	36.6	37.2	38.1	38.8	39.1	39.2	40.1	40.7	40.5	40.5	39.7	41.1	42.1	44.1	45.6	46.2	46.5	43.8	40.6	37.5	35.5	35.0	35.5	40.0																								
MEAN D	34.6	34.1	39.9	40.4	38.1	40.8	37.7	40.4	42.8	47.0	47.9	52.6	44.7	44.3	47.3	37.8	38.6	46.9	40.6	35.3	37.1	35.4	35.6	36.6	40.7																								

VERTICAL INTENSITY

TABLE 9 MEANOOK

Z = 58000 PLUS TABULAR VALUES IN GAMMAS

MARCH 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
		TC 1	TC 2	TC 3	TC 4	TC 5	TC 6	TC 7	TC 8	TC 9	TC 10	TC 11	TC 12	TC 13	TC 14	TC 15	TC 16	TC 17	TC 18	TC 19	TC 20	TC 21	TC 22	TC 23	TC 24		
1		697	696	699	734	761	736	712	647	644	517	394	532	605	575	530	558	639	689	694	689	690	688	696	704	649	
2		706	746	754	726	745	737	728	691	580	482	519	559	669	681	681	682	679	683	688	686	687	683	681	687	673	
3		680	680	679	678	675	688	684	676	586	616	661	669	669	661	669	670	672	680	698	696	692	710	713	687	675	
4		689	688	706	700	689	688	695	687	612	501	536	518	532	537	573	603	642	688	681	678	681	697	716	728	644	
5		709	697	687	661	688	688	681	687	669	688	680	679	677	673	672	670	665	668	693	700	695	697	698	708	685	
6	D	724	754	726	697	680	670	669	662	519	550	513	606	664	665	661	670	670	699	705	723	742	792	797	779	681	
7	D	733	746	707	759	782	713	685	627	557	516	443	603	646	624	619	655	632	660	685	706	681	672	680	731	661	
8	D	744	746	749	726	736	721	694	835	774	859	669	497	462	606	504	501	804	725	904	794	686	583	654	746	697	
9	D	732	763	722	603	747	727	686	698	719	693	671	654	604	647	669	688	682	759	716	710	710	719	732	740	700	
10		737	714	714	707	705	701	700	692	653	660	667	689	699	703	709	710	708	709	705	700	709	707	703	705	700	
11		704	699	699	699	699	699	698	698	698	698	697	698	696	698	697	698	698	697	695	695	698	704	704	702	699	
12		702	703	699	705	704	706	694	648	629	553	506	590	639	677	695	695	636	695	692	690	690	690	691	690	670	
13		689	689	688	688	689	690	698	652	680	671	548	645	678	658	651	662	630	688	687	694	699	698	699	697	676	
14		696	692	691	689	689	688	687	682	682	680	681	682	682	686	688	689	687	682	682	682	685	689	690	685	686	
15		686	691	692	696	713	723	675	683	672	671	639	662	682	685	680	671	677	682	681	681	682	685	685	686	682	
16	Q	685	685	685	685	685	683	683	683	681	677	658	675	676	676	675	682	632	682	728	681	685	686	686	679	683	
17		675	676	675	676	676	676	676	678	676	671	671	671	670	661	666	667	668	675	681	681	681	681	690	695	685	676
18		685	680	679	678	680	680	675	675	672	670	637	575	609	664	675	677	675	684	681	681	685	689	700	698	671	
19		694	688	684	681	680	680	674	672	662	675	680	679	675	672	680	680	680	681	680	680	680	683	693	691	687	680
20		689	684	683	681	680	680	675	675	676	670	672	664	647	664	675	677	675	680	684	681	689	689	691	693	678	
21	Q	694	694	698	698	691	681	680	679	678	678	678	678	678	678	678	680	630	680	675	670	675	678	680	680	681	
22	Q	674	674	674	674	674	674	674	663	671	669	674	648	660	668	672	674	673	674	674	669	669	669	669	674	670	
23		673	675	674	674	674	674	674	671	667	618	660	674	673	669	673	672	672	669	671	670	671	675	676	676	670	
24	Q	680	674	674	674	674	674	674	674	675	676	678	678	674	674	674	674	674	673	666	660	661	663	668	674	672	
25	Q	672	673	674	674	673	671	669	670	673	671	669	669	669	670	673	672	674	677	673	668	668	669	670	672	671	
26		672	670	676	677	679	687	678	676	672	667	665	661	667	671	674	677	677	678	671	666	667	667	668	669	672	668
27		670	669	669	670	670	670	669	670	666	653	630	601	643	659	668	667	669	668	668	668	669	685	733	727	668	
28		708	710	753	734	725	631	614	654	613	503	536	601	592	582	572	610	695	698	690	695	700	715	725	735	658	
29		733	743	744	679	729	727	647	462	638	674	669	651	597	634	644	626	643	661	686	695	695	695	698	718	670	
30		760	694	678	678	676	698	720	665	527	639	572	494	444	593	679	665	674	688	686	679	694	703	690	686	654	
31	D	678	668	667	704	723	689	661	717	646	751	743	611	582	610	584	580	643	659	675	694	706	716	742	741	676	
MEAN A		699	699	697	691	700	692	682	673	650	642	623	629	637	652	654	659	678	685	693	689	688	690	697	702	675	
MEAN Q		681	680	681	681	679	677	676	674	675	674	671	670	671	673	675	676	677	677	683	670	672	673	675	676	676	
MEAN D		722	739	718	698	734	704	679	708	643	674	608	594	592	630	608	619	636	700	737	725	705	696	721	747	683	

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

HORIZONTAL INTENSITY

TABLE 10 MEANOOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

APRIL 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		276	260	254	252	256	258	256	257	260	264	265	266	266	266	258	259	247	235	235	235	235	237	260	257	255
2		254	264	265	264	267	266	270	268	265	264	266	267	266	248	223	239	250	235	233	235	239	241	251	266	254
3		278	267	266	279	307	318	132	159	229	200	154	226	237	244	275	277	274	257	239	229	234	244	254	266	244
4		257	268	264	263	266	267	268	265	210	266	275	258	235	275	277	276	260	257	251	245	244	245	256	258	258
5		270	277	279	278	278	279	279	287	274	225	223	224	286	267	288	278	267	251	250	244	243	254	257	282	265
6	D	285	236	276	284	296	243	67	194	257	179	-194	101	193	247	213	237	254	267	256	258	258	269	265	286	220
7		288	281	275	276	276	284	268	60	258	258	282	271	276	274	275	267	257	248	237	247	246	253	258	277	258
8		305	270	256	275	269	267	275	272	257	193	223	285	278	258	276	276	251	252	244	237	235	246	258	268	260
9		275	279	276	276	277	284	275	277	71	225	286	108	82	10	277	296	275	266	256	253	257	270	266	268	237
10	Q	277	284	277	276	276	276	278	279	284	285	284	284	286	287	286	285	272	260	246	235	234	235	256	254	271
11		275	269	276	278	270	266	268	266	238	181	236	204	285	286	284	283	275	270	263	257	256	256	264	267	261
12		277	278	282	274	276	274	268	248	257	276	277	278	277	280	267	256	256	253	245	245	247	254	256	250	265
13	Q	268	276	274	274	275	277	280	281	281	282	282	264	260	280	285	280	266	253	244	245	246	253	260	267	269
14	Q	279	276	276	275	277	278	279	283	285	286	285	284	277	279	276	267	256	244	246	254	258	265	265	273	272
15	Q	274	275	276	277	283	283	285	287	276	286	293	287	285	283	279	265	241	218	226	237	254	257	269	307	271
16		303	308	325	389	379	329	260	278	277	276	268	268	276	267	265	254	244	241	253	246	251	267	318	372	288
17	D	407	482	342	378	346	338	298	274	92	-61	175	253	263	172	161	233	243	237	224	273	285	308	321	237	262
18		253	254	266	263	265	266	266	270	256	193	-3	-109	-219	-129	224	272	256	253	247	244	263	266	307	347	199
19		263	316	349	475	399	259	-12	-20	-154	-116	-167	52	153	297	303	265	261	248	257	271	273	275	266	274	199
20	D	276	277	274	302	273	276	275	267	266	266	263	226	100	50	265	237	239	213	257	253	255	257	264	265	246
21	D	266	287	276	276	275	255	108	-185	-237	-315	-363	-407	-471	-877	-466	-409	-204	13	171	304	490	688	545	643	28
22	D	606	439	348	362	58	171	273	277	151	-11	193	253	265	266	257	259	245	255	247	244	236	242	244	264	256
23		273	284	263	256	272	294	286	283	271	215	131	151	49	51	182	234	234	235	235	252	262	285	297	334	235
24		306	327	371	346	345	369	294	232	241	225	226	181	162	205	245	164	233	214	220	240	240	242	252	294	257
25		330	314	284	288	289	287	263	264	162	149	187	151	197	231	252	253	264	244	236	238	222	265	293	315	249
26		358	314	273	279	265	262	263	268	273	276	275	270	237	206	254	263	252	243	234	227	241	264	273	322	266
27		387	306	275	274	274	239	225	274	274	274	268	235	242	263	272	271	263	244	241	243	254	254	257	266	266
28	Q	278	278	284	278	284	284	283	273	280	232	274	267	261	263	265	259	246	241	242	247	257	262	261	265	267
29		282	292	287	284	286	284	282	281	272	266	276	271	250	245	258	257	242	240	239	243	251	265	255	256	265
30		294	304	340	353	410	340	394	326	150	141	158	205	274	279	232	241	241	251	257	258	264	265	304	280	269
MEAN A		300	296	288	297	286	279	247	235	209	191	187	196	194	186	234	236	239	238	241	248	258	273	278	293	247
MEAN Q		275	278	278	276	274	260	281	281	281	285	284	277	274	279	278	271	256	243	241	244	250	254	262	273	270
MEAN D		368	354	303	320	250	257	204	165	105	12	15	85	70	-28	86	111	156	197	231	266	305	353	328	339	202

DECLINATION

TABLE 11 MEANOOK

D = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES

APRIL 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		38.2	40.1	40.1	43.6	42.2	41.2	42.0	41.4	42.5	42.0	40.8	40.6	40.8	42.2	44.9	47.0	48.2	48.0	46.2	42.2	39.1	38.2	36.7	37.4	41.9
2		37.5	37.3	38.3	39.1	39.7	40.0	39.2	39.9	39.1	42.3	42.1	42.3	41.5	41.5	43.3	48.1	51.6	52.0	46.8	43.4	41.3	37.5	36.5	36.3	41.5
3		34.4	36.2	35.9	35.5	40.5	30.7	26.4	33.4	41.0	46.8	45.8	43.3	43.1	47.9	46.8	49.5	50.2	48.1	46.0	43.9	48.4	37.3	35.9	34.4	40.6
4		36.0	37.4	39.2	39.2	39.2	40.0	40.0	52.1	46.6	42.4	41.0	43.0	36.8	44.2	48.0	49.5	51.1	49.2	46.9	43.8	39.5	36.0	34.0	34.4	42.1
5		34.9	36.2	37.3	38.5	39.0	39.1	39.3	39.6	42.5	36.5	47.5	51.2	43.6	40.9	48.0	49.1	53.0	49.3	47.5	43.6	37.7	34.9	33.0	33.8	41.5
6	D	33.0	36.1	38.2	37.7	41.7	40.9	48.9	48.9	42.2	39.6	47.2	51.4	49.1	42.2	38.6	42.2	44.8	44.3	44.3	39.3	36.1	35.4	35.6	35.1	41.4
7		36.3	37.6	37.8	36.8	38.6	41.5	49.2	41.2	45.7	45.8	39.5	39.2	40.2	42.6	47.3	50.3	50.7	47.6	42.3	38.1	36.0	33.4	32.9	32.9	41.0
8		32.7	36.4	36.4	37.9	42.5	41.1	37.7	38.2	39.3	35.0	44.0	42.1	42.5	43.0	44.8	46.7	47.0	45.9	44.5	41.9	38.2	35.1	33.0	32.7	39.9
9		33.0	34.8	36.7	39.5	44.3	41.4	39.5	42.7	30.6	38.4	41.3	40.9	41.9	44.0	49.0	50.9	50.8	48.7	42.7	39.2	35.6	34.5	32.6	31.4	40.2
10	Q	33.1	34.6	35.1	35.4	36.5	37.6	37.8	38.0	38.3	38.6	39.3	39.9	41.0	43.1	47.5	50.9	52.3	50.7	45.9	41.0	35.1	31.5	29.8	28.8	39.2
11		28.6	33.2	40.0	38.1	36.6	38.4	38.4	41.3	49.8	44.5	43.2	30.2	37.7	39.5	44.3	46.4	47.7	46.1	41.3	38.2	35.0	33.6	33.2	33.6	39.1
12		34.9	36.3	38.1	38.2	38.2	39.7	41.3	43.1	46.6	40.8	39.7	41.0	41.9	44.3	44.5	44.8	46.0	45.8	42.7	34.7	39.5	33.1	34.9	37.1	40.3
13	Q	37.4	38.2	35.6	36.7	30.0	39.3	39.3	38.7	39.6	40.4	40.6	39.3	38.0	43.6	45.6	46.9	50.9	47.8	43.2	39.5	35.9	33.2	31.7	31.7	39.3
14	Q	33.3	34.6	34.9	36.2	36.7	37.1	38.1	38.4	38.6	39.1	39.6	39.4	41.8	45.4	47.9	48.3	47.6	44.2	38.3	34.6	32.2	33.1	33.4	33.9	38.6
15	Q	35.2	35.2	35.5	36.6	36.4	36.8	36.8	37.1	35.0	39.8	40.5	43.0	43.2	44.8	46.6	47.1	46.6	44.8	31.8	30.3	31.8	30.5	31.0	30.2	37.8
16		32.0	31.3	28.6	25.9	33.6	33.6	27.0	38.9	38.4	39.7	38.6	40.0	41.5	43.3	44.9	46.6	45.7	41.3	35.2	36.8	38.6	34.7	33.0	31.5	36.7
17	D	33.4	26.5	35.1	33.6	35.1	36.7	36.5	36.7	30.1	11.7	36.2	41.5	44.4	44.9	41.3	43.1	41.7	44.9	40.5	33.0	37.3	38.6	37.3	35.7	36.5
18		35.2	36.8	37.9	38.3	38.4	38.8	38.3	38.3	37.6	51.8	57.8	47.8	54.2	57.3	62.4	52.8	47.8	44.7	38.4	33.4	35.2	36.7	35.5	34.1	42.9
19		33.0	30.1	33.4	36.7	38.6	44.9	41.3	55.7	55.2	42.8	54.2	46.6	41.2	48.3	51.5	49.7	45.0	41.5	38.3	37.0	36.2	36.3	36.5	37.9	42.2
20	D	38.8	39.9	40.0	41.5	44.5	41.8	38.3	37.9	38.1	39.6	38.3	39.2	57.8	61.8	46.6	46.2	43.3	36.5	32.0	33.4	31.8	32.0	33.4	34.9	40.3
21	D	36.9	40.7	38.2	39.9	41.4	53.3	56.4	31.2	52.5	74.7	81.5	71.2	63.6	42.2	36.6	46.5	68.4	55.9	42.5	49.8	75.2	70.2	46.5	46.7	52.6
22	D	32.1	31.7	44.4	39.5	33.0	38.0	40.9	41.4	38.2	27.4	46.9	44.6	46.5	49.9	52.8	52.7	52.3	48.8	44.4	41.2	39.0	35.4	34.8	33.3	41.2
23		33.5	35.0	36.7	36.6	37.0	38.5	44.9	38.5	37.8	36.2	37.0	37.7	51.5	56.0	55.6	54.1	51.5	47.8	46.5	38.3	33.3	33.2	31.7	31.6	40.9
24		33.1	29.9	33.6	34.5	39.7	41.6	47.2	43.1	42.4	41.3	47.4	47.7	41.9	46.4	47.7	39.4	42.3	36.8	38.2	30.7	30.0	30.0	32.1	32.3	38.4
25		34.9	35.5	34.4	36.6	47.9	38.1	42.6	41.0	38.4	39.0	44.7	41.6	42.9	48.4	51.1	49.7	46.3	45.2	43.7	41.5	32.4	31.6	30.7	31.0	40.4
26		31.6	32.9	33.4	35.8	35.5	37.4	37.3	38.1	38.4	38.6	39.4	41.0	40.8	41.3	44.7	46.3	47.7	46.6	44.3	40.6	33.4	33.2	32.8	32.4	38.5
27		35.2	33.2	36.6	37.4	37.7	34.9	36.3	41.3	38.2	38.6	38.4	36.6	42.6	46.3	46.4	45.8	44.0	43.9	41.1	37.6	36.5	34.9	33.6	34.0	38.8
28	Q	33.6	36.5	37.6	36.5	37.1	36.5	35.2	37.7	39.7	39.7	39.5	40.2	44.3	44.8	46.6	47.9	47.7	46.4	42.9	38.2	36.1	33.6	32.6	33.1	39.3
29		33.9	35.8	37.1	39.2	37.9	36.1	38.9	38.2	40.8	43.1	43.9	43.2	43.4	48.2	48.9	51.1	49.3	45.2	40.0	32.6	31.5	31.5	31.8	32.1	39.8
30		32.5	33.5	33.8	35.6	34.8	39.9	37.0	36.0	43.4	50.7	44.9	46.2	44.7	44.1	49.7	46.5	39.6	36.4	36.4	36.2	37.5	35.9	35.1	37.3	39.5
MEAN A		34.3	35.1	36.7	37.2	38.5	39.2	39.7	40.3	40.9	40.9	44.0	43.1	44.2	45.7	47.1	47.9	48.4	45.8	41.6	38.5	37.2	35.5	34.1	34.1	40.4
MEAN Q		34.5	35.8	35.7	36.3	35.3	37.5	37.4	38.0	38.2	39.5	39.9	40.4	41.7	44.2	46.8	48.2	49.0	46.8	40.4	36.7	34.2	32.4	31.7	31.5	38.8
MEAN D		34.8	35.0	39.2	38.4	39.1	42.1	44.2	39.2	40.2	38.6	50.0	49.6	52.3	48.0	43.2	46.1	50.1	46.1	40.8	39.3	43.9	42.3	37.5	37.1	42.4

HORIZONTAL INTENSITY

TABLE 13 MEANOOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

MAY 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		T0 1	T0 2	T0 3	T0 4	T0 5	T0 6	T0 7	T0 8	T0 9	T0 10	T0 11	T0 12	T0 13	T0 14	T0 15	T0 16	T0 17	T0 18	T0 19	T0 20	T0 21	T0 22	T0 23	T0 24	
1		264	267	271	284	281	316	301	242	288	292	287	287	276	232	262	271	270	257	251	263	268	305	264	294	275
2		294	286	275	281	291	275	281	260	258	290	282	280	282	284	286	283	263	280	245	253	253	274	267	273	275
3		284	281	283	276	276	276	277	282	283	283	283	262	235	264	268	284	262	256	247	261	263	267	262	266	270
4		277	284	281	273	276	274	275	283	282	293	275	281	285	291	293	283	254	255	245	241	254	253	264	283	273
5		282	283	282	285	282	282	283	283	294	245	76	147	262	272	261	275	263	271	257	251	259	260	264	291	259
6		263	282	283	274	273	273	276	280	283	281	276	281	280	276	277	275	267	270	277	276	271	265	273	275	275
7		282	286	284	293	282	280	282	281	283	284	293	281	272	282	283	281	262	240	233	239	245	257	271	273	273
8	Q	284	281	284	284	284	283	283	283	290	291	289	291	293	294	293	280	253	243	236	249	250	262	264	272	276
9	Q	274	282	284	282	281	279	280	273	280	281	281	281	280	281	282	280	270	261	241	235	237	250	262	274	272
10	Q	279	281	283	281	281	282	282	281	285	283	282	283	284	284	281	264	247	240	235	240	249	263	272	277	272
11	Q	282	285	282	282	282	282	284	289	292	292	293	294	296	296	293	285	271	254	239	249	255	270	282	300	280
12	D	272	315	265	314	296	282	284	290	289	292	217	233	248	245	243	250	237	222	244	248	280	333	303	280	270
13		263	294	303	325	301	281	280	271	271	273	280	275	280	280	264	263	251	240	241	247	248	264	268	271	272
14		292	279	291	291	296	312	293	243	189	289	302	294	282	297	289	254	222	211	237	249	274	268	302	346	275
15		416	355	258	249	273	275	281	280	233	139	240	289	291	294	280	275	261	238	241	249	252	271	282	279	271
16		281	280	281	273	281	282	274	279	246	283	291	291	282	273	251	246	237	227	233	241	249	251	268	280	266
17		298	304	284	282	331	399	315	289	281	294	294	254	240	234	280	310	231	283	257	259	267	285	291	292	288
18		294	307	296	270	274	278	284	292	300	300	301	301	294	293	284	281	275	272	265	270	270	270	272	281	284
19		292	294	300	300	285	282	282	283	272	156	228	282	299	308	313	294	271	246	253	260	269	282	295	302	277
20	D	310	305	280	281	344	310	285	280	280	213	169	211	218	181	230	232	232	233	251	260	260	280	303	324	262
21		337	293	285	260	262	270	271	274	281	259	212	255	259	243	246	246	249	235	229	240	238	261	285	305	262
22		316	324	316	282	271	279	284	283	289	284	282	266	255	266	251	254	238	226	236	261	260	281	278	291	274
23		283	282	291	281	272	278	281	292	281	271	283	281	294	298	281	263	249	224	228	243	256	271	282	303	274
24		320	302	280	285	277	272	274	281	291	284	274	270	285	271	266	269	260	256	266	264	261	272	281	295	277
25		309	333	284	312	291	289	251	288	282	282	280	254	244	240	230	248	243	230	230	249	262	279	298	298	271
26	Q	292	284	281	275	274	280	281	282	289	289	291	293	294	292	280	267	258	246	247	254	261	271	290	276	277
27	D	300	282	296	293	293	294	295	293	272	282	291	282	255	228	270	271	252	235	240	242	262	300	344	440	284
28	D	563	549	379	305	267	262	270	272	285	181	-141	-295	-344	-478	-245	21	236	293	293	302	273	293	294	391	176
29	D	376	351	300	290	326	256	245	-141	90	179	181	289	281	273	282	269	276	275	261	281	264	272	292	307	255
30		304	272	272	294	285	291	272	292	237	39	17	241	305	295	302	250	283	270	286	254	261	262	270	281	256
31		281	282	280	282	273	275	284	269	272	281	293	293	240	235	272	292	280	258	252	252	269	279	291	293	274
MEAN A		305	303	288	285	286	287	281	266	269	258	243	252	253	246	256	262	257	250	248	254	259	273	282	297	269
MEAN Q		282	283	283	281	281	282	282	282	287	287	287	288	289	289	286	275	260	249	240	246	250	263	274	280	275
MEAN D		364	361	304	297	305	285	276	199	243	229	147	144	132	90	156	209	247	252	258	267	268	296	307	348	249

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

DECLINATION

TABLE 14 MEANOOK

 $\delta = 23.0$ DEGREES EAST PLUS TABULAR VALUES IN MINUTES

MAY 1970

HOUR UT DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 1	TO 2	TO 3	TO 4	TO 5	TC 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TC 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	35.9	35.9	36.4	38.0	37.8	37.6	43.4	43.0	42.3	40.2	41.2	42.6	42.6	45.1	46.8	49.2	47.6	46.8	39.6	34.6	31.7	36.7	32.7	34.3	40.1
2	35.2	36.4	38.0	40.7	43.6	39.6	35.4	45.9	44.7	42.5	41.2	41.7	44.4	49.2	51.2	52.5	51.2	46.7	43.0	36.8	35.6	35.1	35.9	36.8	42.0
3	37.5	38.0	37.8	37.0	37.8	38.0	39.3	39.6	40.1	39.3	38.8	36.4	39.3	47.1	52.9	54.2	50.9	44.9	36.7	32.2	35.4	33.1	33.0	34.9	39.7
4	35.3	37.5	37.5	37.5	37.7	37.9	37.9	37.9	42.5	42.4	39.5	42.4	46.1	47.9	52.8	53.3	51.9	46.1	40.9	39.2	37.4	34.8	34.7	35.1	41.1
5	36.3	37.9	37.7	38.0	37.9	37.7	37.9	38.0	38.2	36.3	37.5	60.1	50.3	47.4	55.6	52.4	50.9	45.9	41.6	38.5	36.1	35.3	34.2	35.0	41.5
6	36.9	38.2	39.3	39.5	39.5	40.0	38.7	37.9	35.0	34.5	35.9	37.9	40.9	45.0	48.7	48.8	48.7	44.5	40.6	37.4	36.9	34.7	34.3	35.0	39.5
7	35.8	34.2	36.3	39.5	39.0	38.0	39.0	39.3	39.3	39.3	38.8	41.3	42.2	45.8	47.2	48.7	48.8	47.9	41.3	36.3	33.2	32.9	32.4	34.2	39.6
8	Q 35.0	37.5	37.7	37.7	37.9	36.0	38.2	38.4	39.3	39.2	39.6	40.9	44.0	45.9	48.7	49.3	51.1	46.1	40.8	36.4	33.0	33.0	32.9	33.4	39.7
9	Q 35.0	36.0	37.9	39.4	39.9	40.7	40.8	37.8	39.4	39.5	38.1	38.3	46.7	44.0	47.6	50.0	50.5	45.7	41.3	36.5	34.4	33.4	33.7	34.7	39.8
10	Q 36.0	36.6	37.8	38.9	41.0	39.1	38.6	38.3	39.7	38.9	38.1	40.8	44.0	47.4	48.7	49.4	48.7	45.5	39.7	35.0	33.1	33.9	34.2	34.2	39.9
11	Q 34.4	34.7	36.2	37.8	38.6	39.1	39.4	39.2	39.4	39.1	38.4	39.5	42.4	46.0	47.8	49.2	49.4	47.4	43.9	39.2	34.1	31.3	29.9	29.2	39.4
12	D 32.9	33.3	36.2	34.6	37.8	37.6	37.0	36.5	37.8	39.1	34.2	40.8	45.8	51.0	53.7	53.2	50.7	51.8	34.9	34.1	34.9	35.0	31.3	31.5	39.4
13	31.4	33.3	36.4	37.2	36.7	39.8	38.6	37.7	37.7	38.0	38.8	39.8	42.0	43.1	45.7	46.5	46.2	43.8	41.4	38.3	35.6	34.3	33.0	32.7	38.7
14	33.8	36.4	36.1	36.2	36.2	36.2	39.3	40.7	44.4	43.0	39.9	41.2	43.0	45.9	48.3	52.6	49.7	45.2	40.7	32.8	29.6	26.2	27.8	29.9	39.0
15	33.6	29.6	36.9	37.2	37.8	39.0	37.5	35.7	39.1	43.8	39.1	39.3	43.0	46.4	49.4	48.6	48.1	47.3	37.7	34.0	31.2	29.6	29.8	31.9	38.6
16	34.8	36.5	37.2	37.2	37.7	38.0	38.8	34.9	34.3	37.7	40.4	41.1	43.8	46.5	47.7	51.7	50.4	45.1	38.5	38.6	35.3	30.1	29.9	34.0	39.2
17	33.5	34.8	35.7	35.1	34.8	39.3	39.6	38.3	36.4	36.4	36.5	36.7	42.2	50.4	57.0	53.0	52.2	46.4	40.6	36.4	34.5	34.6	34.5	35.7	39.8
18	37.5	38.8	39.3	39.3	37.2	37.0	37.5	38.0	37.8	39.0	39.8	42.3	42.5	45.7	47.3	48.0	46.4	44.1	42.2	41.5	37.2	34.9	34.5	35.7	40.1
19	36.2	37.7	38.0	39.3	39.6	39.4	47.5	40.9	37.7	41.2	45.6	45.2	47.3	51.7	52.5	49.7	48.3	45.4	39.6	35.6	33.2	32.7	31.1	32.2	41.1
20	D 34.4	35.8	37.8	37.9	38.3	41.0	42.4	37.3	35.8	31.3	33.9	45.0	53.2	46.3	49.2	51.5	47.6	46.9	37.8	37.8	34.7	33.3	31.3	32.5	39.7
21	33.9	36.6	38.1	38.4	37.8	39.2	38.9	38.1	38.1	38.9	39.7	39.2	43.2	46.3	51.1	48.7	47.8	45.8	37.8	31.3	28.8	28.8	30.4	33.1	38.7
22	32.9	32.9	33.1	37.4	35.2	37.0	37.3	37.6	35.8	36.2	36.8	37.6	39.1	47.8	49.2	50.8	51.3	47.8	40.5	33.4	29.7	29.6	31.0	32.8	38.0
23	34.9	37.4	37.6	37.6	37.8	37.4	37.4	37.6	42.6	39.2	38.4	41.0	46.0	46.6	49.5	50.5	49.7	49.0	41.0	35.0	31.3	28.4	28.1	30.0	39.3
24	29.7	34.1	36.5	38.4	39.1	38.4	37.8	36.6	37.8	36.6	36.2	36.2	41.2	45.7	51.1	51.9	52.6	47.6	38.1	35.2	33.9	32.9	33.3	34.4	39.0
25	34.4	34.7	38.1	37.8	40.8	37.8	37.0	38.9	36.5	37.1	35.7	34.4	41.6	45.8	45.8	47.6	46.1	42.6	37.4	34.4	32.8	31.3	32.6	34.7	38.2
26	Q 36.6	36.8	37.6	37.6	37.6	37.6	37.8	38.3	38.4	38.4	39.4	41.0	43.6	45.5	47.4	47.3	46.8	43.4	39.7	34.1	31.2	31.2	31.5	32.5	38.8
27	D 32.8	34.4	34.7	35.7	36.0	37.6	37.8	38.6	39.7	41.0	41.2	41.0	44.4	43.7	49.7	53.9	50.5	48.2	44.5	39.4	36.2	33.3	34.7	36.8	40.2
28	D 36.0	32.5	37.8	36.0	35.7	37.4	37.6	37.3	37.3	34.7	68.4	74.5	55.8	75.9	59.5	54.7	43.6	38.9	35.5	34.4	29.7	32.6	33.6	33.4	43.0
29	D 40.9	38.2	38.0	39.2	42.9	43.8	48.8	45.0	39.5	40.0	41.9	44.3	47.7	54.0	50.9	48.8	43.7	40.8	37.4	38.0	33.0	31.4	33.5	35.3	41.5
30	39.5	40.0	39.5	39.3	42.7	33.2	36.3	36.1	41.1	47.4	49.1	47.4	45.8	50.4	52.0	49.5	47.5	41.4	36.1	34.7	31.4	31.8	33.0	34.7	40.8
31	36.4	38.2	39.5	39.6	39.0	37.9	36.7	34.5	36.9	37.7	38.4	39.5	39.3	47.2	47.4	50.4	48.7	44.0	38.2	33.4	28.9	28.5	29.7	31.1	38.4
MEAN A	35.1	36.0	37.3	37.9	38.4	38.4	39.2	38.5	38.9	39.0	40.0	42.2	44.1	48.0	50.1	50.5	48.9	45.6	39.6	35.9	33.3	32.4	32.3	33.6	39.8
MEAN Q	35.4	36.3	37.4	38.3	39.0	38.9	38.9	38.4	39.2	39.0	38.7	40.1	42.9	45.8	48.0	49.0	49.3	45.6	41.1	36.2	33.2	32.6	32.4	32.8	39.5
MEAN D	35.4	34.8	36.9	36.7	38.1	39.5	40.7	38.9	38.0	37.2	43.9	49.1	49.4	54.2	52.6	52.4	47.2	45.3	38.0	36.7	33.7	33.1	32.9	33.9	40.8

VERTICAL INTENSITY

TABLE 15 MEANOOK

Z = 58000 PLUS TABULAR VALUES IN GAMMAS

MAY 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		T0 1	T0 2	T0 3	T0 4	T0 5	TC 6	TC 7	TC 8	TC 9	TC 10	TC 11	TC 12	TC 13	TC 14	TC 15	TC 16	TC 17	TC 18	TC 19	TC 20	TC 21	TC 22	TC 23	TC 24	
1		715	695	688	698	699	713	643	591	678	696	690	690	683	649	649	665	666	665	669	688	689	711	708	721	682
2		732	715	706	706	715	696	690	613	594	669	681	685	687	684	687	687	635	688	684	681	681	688	701	706	686
3		700	686	683	678	678	678	675	676	675	675	676	650	606	628	644	666	671	671	667	673	684	694	704	714	673
4		698	689	683	680	680	678	678	671	631	648	630	648	672	684	676	677	676	680	684	688	688	688	687	694	675
5		694	693	684	685	692	676	675	678	678	617	445	450	616	659	657	680	675	684	689	691	688	693	698	713	659
6		698	686	682	681	681	678	677	676	675	675	677	679	677	672	666	668	673	675	673	668	667	673	677	677	676
7		678	674	673	677	675	674	674	675	675	674	673	671	663	672	673	677	677	674	667	665	666	669	680	681	673
8	Q	677	675	674	673	673	672	669	668	667	663	668	675	675	676	675	674	673	666	666	667	667	675	683	689	673
9	Q	685	686	685	683	682	682	676	662	666	666	666	664	666	673	673	673	670	666	658	655	660	668	673	679	672
10	Q	692	679	677	675	677	675	674	672	665	667	672	676	677	677	677	674	673	672	663	657	662	664	666	671	672
11	Q	674	674	674	673	673	673	668	669	669	670	674	674	673	669	671	671	666	665	664	664	665	672	684	671	671
12	D	683	703	683	700	712	688	667	663	662	663	569	595	608	606	595	619	641	657	656	665	701	770	761	724	666
13		697	705	720	730	733	709	692	684	677	666	672	673	673	681	681	685	632	688	680	675	673	676	686	692	689
14		701	696	686	691	699	681	701	603	603	671	681	682	676	680	675	666	654	655	678	696	711	699	694	723	679
15		749	742	692	670	678	684	681	665	598	483	547	563	673	683	682	681	677	681	682	681	682	681	680	681	663
16		682	681	675	672	675	680	679	673	587	647	673	676	670	664	651	651	661	658	664	663	668	676	680	690	666
17		695	691	672	666	693	695	709	631	654	665	662	606	586	600	645	684	630	681	681	681	676	683	686	700	670
18		705	702	697	692	678	671	670	669	666	667	671	673	675	672	671	673	673	670	674	673	674	675	675	678	677
19		680	682	682	684	689	681	663	646	652	492	581	626	655	667	676	673	669	665	664	665	667	675	681	686	658
20	D	698	706	694	688	717	677	678	676	664	579	551	586	566	563	632	651	656	681	689	702	714	722	717	727	664
21		760	712	697	673	664	664	664	663	662	626	551	607	616	598	612	637	657	657	661	663	665	674	684	691	656
22		704	703	712	700	683	675	670	654	666	672	667	655	640	656	646	652	658	661	675	682	682	687	683	682	674
23		676	676	682	681	673	670	667	666	630	633	646	652	666	672	671	671	668	666	669	673	681	684	693	713	670
24		721	714	691	683	677	672	666	665	663	656	614	610	657	663	659	665	669	670	659	661	663	669	677	685	668
25		693	712	702	714	700	691	616	664	671	671	669	647	627	629	617	644	667	672	673	682	684	687	700	700	672
26	Q	685	670	665	665	667	667	667	671	671	671	673	674	673	669	666	666	662	661	659	655	660	674	673	668	668
27	D	682	676	680	679	679	676	676	674	648	662	670	666	630	603	619	648	694	653	655	661	681	731	774	812	675
28	D	772	767	725	729	703	683	675	666	664	703	455	562	936	744	573	485	616	687	692	714	703	709	710	749	684
29	D	780	764	715	701	696	697	617	562	722	648	646	666	673	667	687	687	634	693	694	703	707	694	696	705	688
30		721	712	702	701	697	674	639	689	596	446	517	591	683	683	679	656	665	675	678	682	690	690	684	683	662
31		680	683	683	687	684	663	678	618	607	600	630	668	631	602	626	653	673	675	677	677	683	691	691	684	661
MEAN A		703	698	689	688	688	681	672	658	653	640	629	640	662	657	655	660	668	671	672	676	680	688	693	700	672
MEAN Q		681	677	675	674	675	674	672	668	668	667	670	672	673	674	673	672	671	666	662	660	661	666	674	679	671
MEAN D		723	723	699	699	701	684	662	648	672	651	578	615	682	637	621	618	652	674	677	689	701	725	731	743	675

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

HORIZONTAL INTENSITY

TABLE 16 MEANOOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

JUNE 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	D	299	310	326	446	357	331	302	278	199	40	252	252	179	126	158	160	250	284	285	293	274	288	295	296	262
2		303	302	325	326	299	280	282	284	291	292	285	288	280	281	283	254	263	254	247	244	242	258	269	272	279
3		292	324	313	307	295	272	282	263	189	214	209	208	202	274	254	259	266	262	231	231	255	274	271	314	261
4		325	334	334	303	294	280	261	262	261	263	262	281	279	269	241	249	262	264	259	253	269	265	284	281	276
5		271	293	324	303	295	291	262	244	272	271	255	281	302	306	300	285	272	252	255	244	252	262	270	279	277
6	Q	282	293	293	295	294	293	292	284	282	282	290	301	301	302	296	283	270	262	271	272	283	292	293	293	287
7		292	290	291	293	291	292	292	298	293	302	303	304	303	304	303	293	231	282	291	303	316	269	333	447	303
8		415	417	439	335	308	261	-35	221	293	278	259	259	237	274	288	280	272	274	284	282	283	274	282	282	282
9		281	292	304	290	283	281	282	284	282	276	275	276	272	274	270	271	272	266	264	265	282	294	283	290	280
10		302	291	293	282	276	292	292	294	283	274	271	283	283	264	250	242	238	246	256	261	271	288	278	313	276
11	Q	310	303	304	285	281	261	292	284	282	280	282	283	286	280	274	270	269	256	259	261	252	255	274	275	278
12	Q	302	303	313	296	295	291	283	290	274	283	273	280	284	283	291	285	290	264	260	261	260	256	262	281	281
13		302	302	303	296	293	290	309	294	192	211	220	201	161	152	262	270	289	274	265	261	255	267	271	285	259
14		323	359	365	335	294	285	276	272	274	282	285	285	303	312	303	281	269	244	223	219	228	264	293	324	287
15		392	380	348	310	311	347	346	200	137	184	190	115	195	263	276	262	245	231	233	239	263	262	280	334	264
16		355	337	344	313	324	335	282	269	274	273	282	282	267	282	256	265	252	241	232	247	263	273	293	290	285
17		283	275	277	281	282	288	285	297	314	311	305	300	245	267	276	288	241	232	238	272	285	317	375	373	288
18	D	373	346	302	269	272	292	277	184	80	-14	-286	-366	-223	-166	-34	172	260	272	267	272	306	354	395	444	169
19		397	365	344	276	271	265	250	265	275	263	269	273	274	262	252	255	270	279	277	264	263	297	312	348	286
20	D	397	445	383	384	381	149	45	64	62	98	142	136	138	184	171	170	189	195	250	279	356	438	463	517	252
21	D	596	601	473	447	325	333	257	168	242	250	160	225	221	222	239	233	252	280	291	276	266	271	280	272	299
22	Q	302	294	276	291	280	281	278	282	283	284	282	290	296	301	293	280	278	263	247	241	246	249	272	280	278
23	Q	296	302	304	306	303	295	292	285	284	282	283	283	292	293	289	281	266	254	254	254	254	264	275	285	282
24		309	313	283	292	294	293	292	295	296	296	304	304	314	319	303	302	295	263	249	259	267	274	313	316	293
25		325	314	273	284	280	292	290	287	293	284	282	270	264	282	294	294	294	278	274	271	274	295	278	281	286
26		293	304	304	312	314	304	294	183	202	250	295	302	315	325	312	248	233	264	251	262	262	305	294	270	279
27	D	301	293	325	366	347	315	347	71	-53	-66	-25	130	-220	29	255	307	285	290	269	292	273	273	282	283	207
28		297	345	312	296	303	290	283	283	275	257	142	209	191	211	244	266	284	281	270	243	250	254	276	278	264
29		275	267	281	283	292	294	294	275	283	292	293	294	304	302	297	249	223	226	231	251	267	265	270	263	274
30		277	276	284	287	284	292	294	263	251	261	269	282	287	304	306	304	295	279	281	273	272	273	270	276	281
MEAN A		326	329	321	313	301	289	269	251	239	235	230	237	228	246	260	262	264	260	259	261	270	282	296	311	273
MEAN Q		298	299	298	295	291	288	287	285	281	283	282	288	292	292	288	280	273	260	258	258	259	263	275	283	281
MEAN D		393	399	362	382	336	284	246	153	106	62	49	75	19	79	158	208	247	264	272	282	295	325	343	362	238

DECLINATION

TABLE 17 MEANOOK

D = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES

JUNE 1970

DAY	HOUR UT	DECLINATION																							MEAN	
		0 TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 5	5 TC 6	6 TO 7	7 TO 8	8 TC 9	9 TO 10	10 TO 11	11 TO 12	12 TC 13	13 TO 14	14 TC 15	15 TO 16	16 TO 17	17 TC 18	18 TO 19	19 TO 20	20 TO 21	21 TO 22	22 TO 23		23 TO 24
1	D	34.3	36.9	39.3	42.7	37.5	37.5	36.3	37.9	38.5	45.4	41.1	44.5	42.7	47.9	48.7	47.7	53.5	52.0	42.2	37.4	37.1	39.8	39.5	37.5	41.6
2		40.6	41.4	39.0	41.7	41.7	40.1	39.5	39.0	38.2	36.7	37.9	40.0	42.7	47.9	48.8	49.1	49.6	46.4	44.3	38.0	37.5	36.3	34.3	34.7	41.1
3		35.9	36.6	40.8	40.0	47.2	44.8	40.9	39.0	37.2	36.9	39.6	39.5	41.4	43.8	43.3	47.2	47.9	47.0	41.1	34.8	33.7	35.9	35.8	37.5	40.3
4		38.0	38.2	38.8	40.1	39.5	40.4	37.5	42.9	41.1	39.5	37.9	38.4	42.2	44.5	45.4	46.1	46.6	44.8	39.5	37.5	34.2	34.2	36.3	36.4	40.0
5		36.4	37.7	39.5	45.3	41.1	39.2	41.1	39.5	38.0	34.8	33.4	39.5	45.8	47.9	49.0	51.4	48.8	45.3	41.1	36.6	33.0	31.3	31.8	34.7	40.1
6	Q	36.6	38.0	38.2	39.0	39.5	39.3	36.4	39.2	38.4	34.7	37.9	40.8	44.3	47.4	48.0	47.5	47.0	44.1	39.3	33.8	32.7	33.5	35.0	36.3	39.5
7		37.5	37.8	37.8	38.0	39.1	37.5	37.8	37.8	38.0	39.1	39.1	41.4	44.9	47.1	48.3	49.7	47.1	46.0	40.5	39.9	36.2	29.8	28.0	26.9	39.4
8		33.8	24.9	28.5	36.7	36.4	36.4	23.5	37.6	38.0	36.4	37.8	44.2	41.2	47.8	50.7	51.3	50.9	48.6	42.8	37.6	34.3	34.6	35.2	34.8	38.5
9		34.9	34.8	36.4	38.1	37.6	37.5	37.6	36.4	38.1	38.0	39.6	41.7	43.8	47.3	49.2	49.4	49.4	46.7	45.1	38.3	33.8	32.0	31.5	31.9	39.5
10		33.3	36.2	35.4	36.0	36.8	36.8	37.0	38.5	36.8	36.4	34.4	36.8	40.2	41.5	44.4	45.9	46.2	39.7	33.8	29.6	27.7	29.8	32.7	33.1	36.6
11	Q	35.6	36.2	39.4	37.0	36.5	36.7	36.4	36.5	37.8	38.0	39.6	41.0	43.3	46.3	49.1	50.9	51.3	50.7	41.4	38.3	36.0	33.8	33.1	34.3	40.0
12	Q	34.6	34.8	35.7	38.0	38.0	38.3	37.5	37.5	34.9	36.8	38.3	41.2	43.9	46.5	49.4	51.5	54.1	53.9	49.7	42.0	36.5	34.8	31.7	31.4	40.5
13		32.0	34.1	34.9	35.9	35.2	36.4	36.2	33.6	33.3	41.2	41.4	41.2	49.6	54.1	54.4	50.4	50.4	50.9	46.5	41.4	36.2	33.0	32.7	33.1	40.3
14		33.6	33.1	36.2	36.4	36.0	36.5	36.2	37.0	38.0	38.3	39.6	40.9	44.7	48.3	51.2	54.1	50.9	48.8	45.9	41.0	26.4	26.5	28.1	27.0	38.9
15		28.2	29.4	32.9	35.3	34.7	31.6	30.5	41.3	42.7	40.0	40.0	41.5	41.8	53.8	57.2	55.0	53.0	48.1	44.0	37.9	33.2	30.3	29.9	31.6	39.3
16		32.0	31.5	30.2	34.9	38.1	39.7	35.3	33.6	35.0	36.5	38.1	40.5	41.6	46.0	47.2	51.1	52.1	50.3	46.4	39.5	35.2	33.2	33.2	34.4	39.0
17		33.7	34.9	35.3	36.1	36.1	36.1	35.5	36.3	36.3	38.1	39.0	42.6	41.9	50.8	54.2	53.7	56.4	48.9	43.5	41.3	34.0	32.0	28.4	28.1	39.7
18	D	25.2	33.2	36.1	36.0	34.7	36.9	38.4	37.1	37.7	39.2	28.7	85.9	66.9	54.3	55.9	43.2	37.6	42.1	41.0	37.9	34.9	36.8	36.3	38.1	41.4
19		33.9	29.4	30.7	37.1	36.0	36.1	35.8	38.1	36.1	37.1	43.2	42.9	46.1	47.7	49.2	52.2	50.5	48.9	42.6	37.7	34.9	35.0	34.9	31.6	39.5
20	D	31.3	27.0	29.7	29.5	29.9	28.4	36.5	47.7	33.6	20.2	40.5	46.1	49.3	60.8	57.2	47.6	48.7	48.9	44.3	43.1	44.3	45.6	42.7	39.8	40.5
21	D	36.8	34.2	22.3	35.5	31.3	32.4	33.2	31.6	35.0	34.9	40.6	33.4	38.2	42.6	46.3	49.2	49.5	47.7	41.8	41.3	40.8	38.1	34.9	33.2	37.7
22	Q	32.0	33.2	36.0	36.5	36.5	36.9	37.4	36.5	36.6	38.2	38.1	42.7	42.6	44.7	46.8	50.0	47.7	44.2	39.7	35.0	29.9	27.0	28.4	30.0	37.8
23	Q	31.8	33.6	36.5	36.3	36.5	36.5	36.3	36.3	36.4	38.1	38.7	41.5	45.8	48.4	49.5	47.7	46.1	46.1	41.9	37.9	33.7	33.2	32.6	34.9	39.1
24		37.2	39.1	39.9	38.2	36.9	36.6	36.7	36.7	37.2	38.0	39.5	41.4	44.8	44.9	45.9	49.0	46.4	43.6	42.7	38.2	31.7	31.6	31.9	35.0	39.3
25		33.3	35.3	38.3	36.7	38.2	39.9	41.1	39.5	39.1	37.8	36.9	38.3	37.7	40.4	43.0	45.7	47.8	46.5	43.3	39.6	36.7	36.1	34.8	35.0	39.2
26		36.4	38.3	39.3	40.4	41.6	39.1	41.4	47.3	44.3	43.2	39.6	38.5	44.8	48.5	58.8	49.6	46.5	43.0	41.9	38.2	31.1	31.7	34.0	34.8	41.3
27	D	36.2	37.2	40.1	48.8	44.3	38.7	36.1	28.5	43.6	46.4	48.0	49.3	47.8	55.7	52.0	52.3	50.7	45.6	37.7	38.2	37.0	33.7	33.3	33.3	42.3
28		34.8	38.0	40.9	38.7	40.1	47.7	40.4	38.2	37.7	36.9	37.7	38.0	45.1	47.5	49.8	49.6	48.5	44.9	42.0	36.6	33.7	33.3	33.2	34.8	40.3
29		35.0	35.4	36.7	37.5	38.0	40.3	39.8	40.1	36.4	36.1	36.4	38.7	42.0	44.3	47.8	47.8	46.2	41.9	31.9	30.0	28.5	26.3	29.5	31.6	37.4
30		33.7	35.1	36.4	36.7	36.4	36.6	37.8	39.8	39.3	39.8	41.2	39.8	44.3	48.0	50.7	49.4	47.8	43.0	39.8	35.9	34.6	34.8	34.8	34.5	39.6
MEAN A		34.3	34.8	36.0	38.0	37.7	37.7	36.9	38.0	37.8	37.7	38.8	42.4	44.4	47.9	49.7	49.5	49.0	46.6	41.9	37.8	34.3	33.5	33.3	33.7	39.7
MEAN Q		34.1	35.2	37.2	37.3	37.4	37.5	36.8	37.2	37.2	37.2	38.5	41.4	44.0	46.7	48.6	49.5	49.3	47.8	42.4	37.4	33.8	32.5	32.2	33.4	39.3
MEAN D		32.8	33.7	33.5	38.5	35.5	34.9	36.1	36.6	37.7	37.2	39.8	51.8	49.0	52.3	52.0	48.0	48.0	47.3	41.4	39.6	38.8	38.8	37.3	36.4	40.7

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

VERTICAL INTENSITY

TABLE 18 MEANOOK

Z = 58000 PLUS TABULAR VALUES IN GAMMAS

JUNE 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
		TC 1	TO 2	TO 3	TC 4	TO 5	TC 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TC 13	TO 14	TO 15	TO 16	TO 17	TC 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
1	D	684	691	713	712	715	733	711	683	581	451	604	632	611	507	499	532	624	668	677	701	696	713	726	705	649	
2		704	697	699	731	711	686	687	680	675	666	664	674	669	668	675	667	671	668	670	668	681	694	701	703	684	
3		703	712	706	706	703	686	691	649	542	579	592	588	600	647	644	632	654	669	669	674	688	699	700	719	661	
4		732	732	702	694	697	689	656	654	636	635	634	658	653	640	618	628	653	680	673	671	674	674	694	710	670	
5		695	690	704	712	692	691	667	648	660	638	627	658	678	683	674	667	664	660	659	659	667	674	677	679	672	
6	Q	678	678	678	679	682	678	670	665	657	654	628	677	677	674	668	667	667	667	669	668	668	668	668	670	669	
7		670	673	673	673	675	673	669	668	659	650	666	676	676	668	663	663	653	641	635	640	643	661	687	761	668	
8		749	752	793	758	728	660	618	668	679	684	666	665	652	671	684	684	672	671	669	665	658	660	679	686	686	
9		684	681	686	679	674	668	668	667	668	668	674	677	677	683	684	682	678	668	658	665	676	675	674	676	675	
10		686	680	684	680	673	668	670	659	652	651	627	639	665	660	652	652	696	666	667	675	684	682	677	682	666	
11	Q	684	685	693	677	668	668	669	669	674	674	675	675	675	674	669	660	653	653	651	650	652	657	663	669	668	
12	Q	679	685	687	686	685	681	675	673	643	644	660	669	668	658	655	658	658	655	658	658	662	665	675	685	668	
13		693	694	686	680	677	669	676	678	610	591	583	583	451	478	611	664	635	685	688	694	699	706	704	698	649	
14		711	733	721	690	693	688	682	677	676	679	682	682	684	680	675	670	669	669	670	679	674	672	673	692	684	
15		727	771	744	710	707	726	727	512	516	596	621	666	601	631	655	662	666	670	681	687	690	697	702	718	670	
16		734	734	750	748	729	724	702	677	670	674	679	681	675	679	666	674	675	669	664	667	673	673	684	693	691	
17		685	674	671	668	668	668	668	669	671	667	664	663	619	615	636	656	658	652	657	668	679	726	760	758	672	
18	D	764	744	707	675	665	672	652	537	553	682	373	511	598	493	540	570	655	678	687	713	733	775	797	791	648	
19		751	749	771	737	697	683	618	670	673	649	638	676	680	670	665	656	663	660	658	649	652	685	707	715	682	
20	D	753	784	770	779	689	714	684	668	642	586	538	530	524	520	497	517	577	624	690	711	771	816	813	801	667	
21	D	781	695	754	718	732	724	705	695	693	671	602	549	635	636	641	650	656	669	675	679	687	698	697	690	681	
22	Q	698	696	693	692	683	675	674	675	673	674	657	661	661	665	666	664	666	661	651	656	659	664	675	685	672	
23	Q	694	701	699	686	692	694	686	676	675	674	674	671	669	669	671	665	660	652	656	664	663	668	675	678	676	
24		683	691	683	674	668	665	665	665	665	665	667	666	667	660	654	665	660	659	660	659	664	666	685	698	669	
25		715	721	706	675	665	669	662	666	659	646	638	621	608	623	641	649	655	665	668	672	676	687	698	704	666	
26		699	688	679	686	697	698	693	537	542	577	645	668	678	673	663	642	597	628	648	663	683	704	690	670	656	
27	D	674	681	707	732	732	717	710	649	794	789	675	672	623	541	670	702	633	698	673	671	686	694	696	693	691	
28		695	727	728	699	697	681	680	682	673	651	535	598	591	591	618	648	673	683	684	680	681	681	684	690	665	
29		680	676	674	674	674	675	655	637	656	671	671	673	680	672	669	663	663	670	676	688	700	702	695	682	674	
30		680	672	669	672	671	674	672	570	569	600	614	633	655	675	679	672	664	662	661	661	661	661	661	672	685	654
MEAN A		706	706	708	699	691	687	675	651	645	645	629	643	640	633	643	649	698	664	667	672	679	690	698	703	670	
MEAN Q		686	689	690	684	682	679	675	672	664	664	659	671	670	668	666	663	661	658	657	659	661	664	671	677	670	
MEAN D		731	719	730	723	707	712	692	646	653	636	559	579	598	540	569	594	641	668	680	695	715	739	746	736	667	

HORIZONTAL INTENSITY

TABLE 19 MEANOOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

JULY 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TC 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		279	314	319	313	325	307	273	251	219	274	273	304	295	256	263	316	237	300	255	262	271	282	284	295	284
2		298	302	293	292	304	306	310	223	283	292	267	-7	283	330	316	308	233	290	284	270	272	271	282	305	278
3		325	315	325	306	342	304	301	150	-23	-25	-150	253	307	302	320	322	303	275	266	273	303	304	322	590	263
4		783	456	325	284	317	294	143	254	100	244	245	282	293	282	282	274	274	274	283	274	266	263	264	273	293
5		287	294	306	369	439	330	301	230	151	263	284	294	300	287	275	273	263	238	253	257	253	255	283	339	284
6		395	404	368	317	312	238	232	170	8	130	263	251	167	230	294	296	238	305	296	282	281	274	277	281	267
7	Q	292	292	287	283	277	260	285	287	285	280	281	283	283	293	291	291	237	276	278	264	254	251	270	313	282
8		322	325	326	324	322	294	283	277	283	283	282	284	272	222	240	255	253	258	260	273	284	294	310	386	288
9	D	418	386	334	530	360	342	274	272	242	-188	-77	-155	-200	-217	-311	-86	242	312	309	307	223	274	55	-108	147
10	D	-106	315	303	258	241	250	244	253	267	274	283	280	262	285	273	212	253	251	282	274	272	314	326	324	258
11		303	295	282	258	262	271	273	281	270	254	259	233	222	262	271	271	251	265	257	245	242	265	276	313	266
12		354	346	382	326	305	288	305	291	171	145	268	274	232	260	263	246	254	267	241	223	243	264	285	314	273
13		327	337	337	315	295	295	296	281	281	284	278	282	287	282	278	271	262	249	250	254	255	256	272	293	284
14		315	313	318	305	285	276	281	285	256	275	277	284	291	286	290	290	294	258	244	243	263	274	294	294	283
15	Q	309	290	308	295	293	287	291	284	281	274	266	274	293	296	300	296	237	278	262	256	261	264	277	279	283
16		321	319	297	294	291	287	283	284	285	284	286	277	250	256	296	287	271	264	244	249	254	272	269	283	279
17		285	314	305	285	285	285	293	294	293	288	294	295	290	285	282	300	234	264	266	264	284	297	313	314	290
18	Q	283	295	298	292	307	304	289	286	285	286	282	284	294	300	295	281	273	266	258	258	257	263	267	263	282
19	Q	282	290	302	303	299	294	294	294	292	283	272	292	304	305	273	303	283	261	263	267	264	257	293	302	286
20		292	293	294	284	292	292	294	294	294	294	289	303	303	304	304	295	281	265	251	251	264	272	256	353	288
21	D	345	360	318	396	404	385	385	399	401	328	230	107	251	68	107	255	145	262	232	242	313	306	333	333	290
22		350	295	282	302	280	294	285	263	192	223	291	290	289	284	273	263	226	248	274	285	300	326	351	392	286
23		417	427	345	283	281	294	274	295	285	293	313	315	302	305	305	322	305	283	266	272	272	267	276	287	304
24		308	366	426	524	379	371	54	205	310	304	292	294	241	201	230	258	306	292	282	295	291	278	297	302	296
25	D	399	374	736	748	464	222	-164	-365	-35	178	-118	-146	283	60	114	283	311	310	302	283	294	407	496	623	253
26		572	553	489	388	220	268	68	250	211	205	17	3	125	202	289	292	346	282	275	263	271	304	345	283	272
27		291	289	304	284	323	254	262	280	274	209	202	242	291	235	226	261	267	260	264	261	275	262	290	290	266
28	Q	286	271	273	283	280	281	282	286	294	291	283	282	291	302	297	295	278	257	240	240	252	259	279	291	278
29	D	333	296	305	313	324	40	-332	-426	-205	-302	-272	-144	-330	-208	219	2	173	312	253	290	304	303	285	284	76
30		284	285	286	286	302	294	288	282	282	280	271	265	279	288	292	286	277	252	237	242	265	295	324	332	282
31		333	328	282	313	293	233	272	193	201	127	255	243	264	260	272	255	252	233	234	272	279	293	310	315	263
MEAN A		332	333	334	334	313	283	233	223	217	216	209	214	236	229	249	260	272	271	263	264	270	283	292	314	269
MEAN Q		291	287	294	291	291	289	288	288	287	283	277	283	293	299	291	293	232	268	260	257	257	259	277	290	282
MEAN D		278	346	399	449	359	248	81	27	134	58	9	-11	53	-2	80	133	235	290	276	279	281	321	299	291	205

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

DECLINATION

TABLE 20 MEANOOK		D = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES																							JULY 1970
HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
UT	TC	TO	TO	TO	TO	TC	TO	TO	TC	TO	TO	TC	TO	TC	TO	TO	TO	TO	TO	TO	TO	TO	TC	TO	
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	35.6	37.8	39.9	39.3	38.1	43.8	47.3	41.2	44.6	39.3	37.7	41.0	42.5	44.7	58.1	58.3	51.0	52.0	44.3	38.0	34.1	33.0	33.1	34.4	42.0
2	36.2	38.0	39.6	38.9	41.0	40.5	38.1	41.5	39.4	39.1	36.2	36.4	44.3	47.8	53.8	53.9	55.7	53.4	47.1	40.7	36.5	34.3	32.8	31.7	41.5
3	33.9	34.9	36.0	36.0	36.2	48.6	41.0	39.3	39.6	47.8	37.8	39.3	42.8	47.8	50.5	48.6	45.7	43.0	40.4	37.7	35.9	36.2	35.9	43.0	40.7
4	48.9	27.0	29.3	34.6	32.7	43.0	44.1	37.7	38.0	39.4	37.8	44.3	45.4	46.2	49.2	51.2	51.3	48.8	44.6	40.9	36.7	34.3	32.8	32.8	40.4
5	35.1	35.9	35.9	34.4	53.6	42.5	31.7	31.5	38.8	40.1	40.9	42.8	45.7	46.8	50.5	52.1	54.7	51.0	42.8	39.7	34.4	30.9	31.2	31.7	40.6
6	34.2	34.2	32.6	35.3	37.2	31.8	39.5	41.6	55.1	43.8	43.8	41.4	40.6	45.8	52.4	53.7	53.8	51.9	45.9	40.4	36.4	34.2	33.8	34.3	41.4
7	Q 34.8	35.9	37.6	37.9	37.7	37.7	37.6	37.6	40.3	40.6	39.6	40.9	42.7	45.8	47.5	49.0	48.8	47.5	44.2	39.6	35.9	32.7	34.3	34.5	40.0
8	35.0	35.8	34.5	33.7	34.7	34.5	36.1	37.4	37.6	36.6	37.4	40.4	41.7	41.7	44.2	47.0	45.6	44.5	40.3	36.4	32.7	30.1	30.5	25.3	37.2
9	D 18.2	21.5	21.9	18.1	-9	3.7	29.3	34.3	27.4	28.2	71.2	65.6	73.8	61.4	69.8	74.7	59.6	46.9	45.6	40.9	40.8	39.0	48.2	48.5	41.2
10	D 47.4	30.9	31.1	34.3	35.8	35.9	35.8	36.6	37.7	37.6	36.1	35.8	36.6	40.3	34.3	49.3	49.0	44.0	47.9	40.9	34.0	29.3	28.1	29.3	37.4
11	31.1	32.9	37.6	37.4	37.4	37.6	37.6	47.2	39.3	37.7	38.8	39.5	40.1	49.1	49.1	50.6	49.6	47.2	45.4	41.9	38.7	36.1	32.7	32.4	40.3
12	34.3	30.0	37.1	40.1	34.7	36.1	35.8	34.3	34.7	39.0	39.2	40.6	40.3	47.0	48.8	48.5	47.7	49.0	49.5	35.6	34.0	34.3	33.0	34.0	39.1
13	32.6	34.0	39.3	36.6	34.5	44.0	38.7	35.9	36.6	38.0	38.8	41.3	44.6	47.0	47.5	50.6	49.8	46.6	34.5	36.3	34.3	32.7	32.6	32.4	39.1
14	33.8	34.7	35.8	34.7	37.2	36.4	36.4	36.4	37.4	37.9	39.2	41.9	43.5	45.6	46.7	47.2	47.7	50.3	46.6	36.6	34.2	34.3	34.2	35.9	39.4
15	Q 35.6	36.1	35.9	39.0	36.4	37.1	37.6	36.4	35.8	35.6	42.2	41.4	42.4	43.2	44.2	46.2	46.4	45.0	42.9	39.2	37.4	35.6	33.7	33.7	39.1
16	34.5	35.9	37.6	35.9	37.1	36.3	36.1	37.4	38.8	39.2	40.4	40.8	40.8	44.5	48.3	47.7	48.8	45.8	41.1	36.1	32.9	33.5	34.3	34.2	39.1
17	35.3	37.9	38.5	38.8	37.6	37.6	37.2	37.4	37.7	38.8	39.8	40.8	43.7	46.9	46.7	48.8	47.5	42.1	37.6	35.6	32.9	32.2	29.8	31.6	38.9
18	Q 34.3	35.8	36.3	36.1	35.9	42.4	38.5	37.1	37.6	37.6	37.2	38.8	41.4	44.8	45.8	46.2	45.8	44.5	40.8	37.9	36.8	32.4	32.7	33.2	38.7
19	Q 34.3	35.6	37.2	39.8	40.6	37.6	37.4	36.7	37.6	36.3	32.7	37.7	42.4	45.3	47.2	49.6	50.1	47.2	39.3	36.1	32.7	31.1	31.1	31.6	38.6
20	33.9	36.0	38.9	37.6	35.8	37.6	39.4	39.2	38.4	38.1	38.7	40.5	42.4	45.3	45.5	47.3	49.5	49.7	45.8	40.5	32.6	30.0	30.2	28.0	39.2
21	D 39.2	39.1	29.4	29.4	35.5	35.5	37.8	37.0	36.6	37.5	35.5	49.0	43.9	58.1	50.5	47.3	52.3	47.3	46.8	31.2	31.8	31.2	30.2	35.8	39.5
22	35.7	35.8	36.2	37.9	42.3	38.9	37.3	37.8	26.5	32.6	37.5	42.0	45.3	47.3	48.7	51.1	50.3	44.1	39.4	37.1	35.7	32.5	32.8	36.0	39.2
23	36.2	36.8	37.6	40.7	40.3	36.0	45.8	39.4	37.1	37.5	37.3	36.5	40.8	46.6	48.9	50.0	51.8	51.0	39.9	35.8	36.2	32.8	30.7	32.5	39.9
24	32.9	34.4	28.4	26.0	32.6	38.9	47.3	38.7	39.4	38.7	39.1	38.9	40.7	45.3	48.2	34.2	37.5	39.7	42.4	36.5	34.2	35.8	37.5	37.3	37.7
25	D 41.0	32.9	23.8	23.0	35.8	26.2	73.5	19.7	44.1	46.1	45.3	50.2	36.6	64.2	46.1	43.9	46.6	42.9	37.6	35.5	33.7	45.7	50.2	44.2	41.2
26	32.6	24.7	26.3	28.0	31.0	37.6	29.4	39.4	39.4	33.9	37.8	43.1	32.5	35.7	46.6	49.0	52.1	47.3	46.0	39.7	37.6	34.2	39.2	35.2	37.4
27	34.9	36.5	37.6	38.4	41.3	40.8	42.1	39.1	37.6	34.1	40.8	40.5	40.8	46.3	45.2	51.3	44.5	43.9	44.1	43.9	38.3	30.0	32.5	35.2	40.0
28	Q 35.8	36.5	38.7	38.9	39.1	39.2	39.4	39.2	40.5	39.9	39.2	41.3	44.2	46.5	49.5	50.5	48.7	47.8	42.1	37.3	33.1	30.5	32.6	34.2	48.2
29	D 37.6	37.0	37.9	37.5	56.1	44.2	42.8	44.2	45.2	78.7	58.4	54.7	52.4	59.5	45.0	54.8	52.4	47.8	40.7	35.2	34.4	36.0	37.1	37.8	46.1
30	39.1	40.2	39.4	40.8	43.6	54.0	40.0	37.6	37.6	37.5	37.8	40.3	45.0	47.1	49.2	49.8	46.3	41.6	36.3	31.3	26.8	29.9	34.6	35.4	40.1
31	37.4	36.4	39.6	42.3	39.1	31.2	41.2	38.6	40.6	34.5	36.2	38.3	43.8	50.1	52.2	48.5	43.3	40.2	33.0	26.1	30.6	35.3	35.3	32.8	38.6
MEAN A	35.5	34.5	35.1	35.5	37.1	37.6	39.7	37.7	38.6	39.4	40.3	42.1	43.3	47.5	48.7	50.0	49.2	46.6	42.4	37.4	34.7	33.6	34.1	34.5	39.8
MEAN Q	35.0	36.0	37.1	38.3	37.9	38.8	38.1	37.4	38.3	38.0	38.2	40.0	42.6	45.1	46.8	48.3	48.0	46.4	41.8	38.0	34.8	32.5	32.9	33.4	39.3
MEAN D	36.7	32.3	28.8	28.4	32.5	29.1	43.8	34.4	38.2	45.6	49.3	51.0	48.7	56.7	49.1	54.0	52.0	45.8	43.7	36.7	34.9	36.2	38.7	39.1	41.1

VERTICAL INTENSITY

TABLE 21 MEANOOK

Z = 58000 PLUS TABULAR VALUES IN GAMMAS

JULY 1970

HOUR UT DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	680	694	703	708	739	728	634	633	636	655	653	685	681	608	576	647	656	670	662	672	681	681	681	680	669
2	678	680	680	672	683	691	559	477	626	639	623	531	652	691	692	679	671	672	675	669	671	679	680	686	652
3	700	695	700	698	737	669	679	680	700	706	599	501	644	646	674	683	681	680	683	685	699	711	728	774	682
4	579	709	745	725	725	593	509	668	717	737	651	662	688	690	692	689	631	681	685	689	692	698	697	692	679
5	692	686	682	709	670	631	661	702	597	652	675	687	686	678	663	661	662	667	672	678	669	673	687	716	673
6	762	758	751	744	696	651	648	604	496	564	641	635	568	603	676	691	637	693	682	688	688	688	689	688	667
7	Q 681	677	677	676	676	676	678	679	663	659	667	670	671	678	677	676	670	666	660	666	670	675	686	710	674
8	727	725	724	736	738	724	698	680	681	684	679	680	669	631	639	657	659	669	669	669	677	692	724	741	690
9	D 792	762	714	698	386	567	670	611	713	685	440	634	658	401	415	523	612	656	690	713	765	859	923	820	663
10	D 621	697	708	707	701	696	688	684	686	688	669	677	643	670	677	631	658	670	688	700	714	723	719	710	685
11	708	733	721	694	685	685	694	666	668	659	676	662	648	665	665	672	676	674	678	687	689	703	714	732	686
12	752	724	738	738	728	716	711	694	681	539	637	657	630	642	660	642	659	673	683	685	686	696	707	724	680
13	724	733	742	714	698	706	697	687	685	683	680	679	679	676	667	659	654	659	666	665	679	686	696	695	688
14	686	687	704	685	700	686	678	676	610	651	675	685	685	678	676	676	675	674	682	678	679	682	686	698	679
15	Q 712	692	691	688	678	674	670	668	665	589	614	647	674	689	694	693	633	679	674	675	675	677	687	691	674
16	704	706	720	698	694	688	684	675	675	674	674	670	632	618	657	666	663	660	657	658	664	668	674	674	673
17	673	685	687	677	674	673	668	669	669	669	673	674	667	663	646	648	656	656	658	656	665	684	719	725	672
18	Q 693	683	684	685	701	642	666	668	667	667	655	656	672	674	677	675	673	673	673	663	662	664	674	678	672
19	Q 684	683	684	691	688	680	677	679	673	659	616	638	669	676	674	668	667	663	663	664	669	679	694	709	673
20	720	710	699	689	679	677	673	670	666	665	667	676	680	680	680	677	674	674	674	663	666	675	688	703	680
21	D 741	780	743	745	711	701	672	673	666	679	614	532	613	493	495	624	661	655	675	692	698	693	711	739	667
22	722	689	684	700	702	688	673	693	459	516	645	674	674	673	670	678	673	673	673	676	706	721	725	760	673
23	746	721	712	706	689	681	629	649	656	655	648	680	684	679	677	680	673	666	661	662	665	666	674	680	677
24	684	733	780	739	711	719	411	617	709	702	689	690	644	587	598	618	651	665	667	679	688	691	710	736	671
25	D 785	794	787	745	778	612	872	801	784	806	639	571	650	512	605	708	720	701	684	684	692	738	747	658	711
26	645	680	720	674	737	701	525	552	630	601	598	525	527	548	684	712	699	687	686	692	700	710	738	720	654
27	701	696	700	698	692	544	658	681	682	607	571	643	683	655	635	671	685	687	681	691	710	690	701	705	669
28	Q 704	694	682	683	682	682	681	681	675	676	678	682	683	686	686	686	675	671	671	664	669	664	679	688	680
29	D 711	694	686	697	654	537	434	835	625	635	762	530	516	857	654	557	595	700	719	711	712	692	692	700	663
30	700	696	690	691	704	683	689	681	681	682	681	675	681	678	679	674	630	681	683	687	689	701	713	725	688
31	734	728	730	731	710	673	651	568	571	575	604	620	653	652	660	644	637	659	669	670	694	701	727	749	667
MEAN A	705	710	712	705	692	667	650	665	653	653	646	640	658	645	649	660	667	673	676	678	687	696	709	713	675
MEAN Q	695	686	683	684	685	671	674	675	669	650	646	658	674	681	682	680	673	671	668	667	669	672	684	696	675
MEAN D	730	745	728	718	646	623	667	721	695	699	629	589	656	587	569	609	649	676	691	700	716	741	758	725	678

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

HORIZONTAL INTENSITY

TABLE 22 MEANOOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

AUGUST 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		T0 1	T0 2	T0 3	T0 4	T0 5	T0 6	T0 7	T0 8	T0 9	T0 10	T0 11	T0 12	T0 13	T0 14	T0 15	T0 16	T0 17	T0 18	T0 19	T0 20	T0 21	T0 22	T0 23	T0 24	
1	Q	328	312	282	265	278	281	282	284	283	272	271	292	295	295	291	274	252	250	249	255	265	272	285	304	280
2		282	312	311	303	303	285	283	286	290	283	292	294	295	294	302	291	275	255	249	252	253	261	275	284	284
3	Q	296	303	304	306	303	294	296	301	296	300	293	293	302	295	292	290	281	269	270	262	259	262	275	291	289
4	Q	297	293	293	292	293	292	293	296	300	294	292	291	293	294	293	293	291	273	252	240	251	251	262	280	283
5	Q	291	300	307	301	293	292	291	290	291	292	291	294	302	305	304	301	292	276	259	261	270	269	276	284	289
6		298	301	301	296	300	300	302	301	302	285	302	312	312	312	311	302	293	283	279	272	281	293	302	304	298
7		302	290	277	298	303	302	307	310	301	294	302	301	302	292	280	273	274	271	263	261	282	312	313	333	293
8	D	343	313	362	362	280	280	300	255	-53	-355	-203	-157	158	348	288	292	234	296	276	272	281	302	320	333	216
9	D	444	500	427	287	334	333	306	238	169	259	201	115	239	290	301	291	282	269	269	270	269	272	272	280	288
10		289	300	292	293	287	288	293	292	260	230	270	219	221	269	301	292	231	259	259	257	267	265	274	283	272
11		293	272	292	292	296	293	293	302	249	220	296	298	293	270	272	282	293	281	261	251	260	267	308	332	282
12		372	345	324	336	342	281	287	282	290	292	297	288	293	297	289	283	267	249	232	234	240	283	267	276	289
13		280	292	290	278	282	294	291	292	289	279	265	279	292	264	288	291	264	240	220	207	237	277	278	282	273
14		282	281	305	296	302	292	289	291	300	291	295	291	297	298	264	263	239	219	209	228	253	279	297	306	279
15		296	294	307	282	298	300	284	296	295	291	284	280	281	293	292	282	248	215	215	229	247	292	321	301	280
16		291	312	310	289	299	311	299	303	302	303	301	288	280	295	301	292	265	247	230	260	282	295	410	389	298
17	D	556	573	581	189	126	5	-148	82	56	280	252	79	286	158	231	216	134	190	221	232	233	295	342	369	233
18	D	485	476	433	442	141	127	203	-14	32	-30	-92	-235	-236	105	-51	239	113	112	220	296	279	278	291	352	165
19		476	402	391	300	299	269	276	270	259	176	124	279	268	250	244	251	239	255	266	258	261	262	269	277	276
20		273	271	278	278	280	281	281	278	299	280	279	252	257	279	287	278	274	261	247	239	240	250	260	279	270
21		287	282	288	281	280	281	280	279	287	289	289	280	290	294	292	278	251	247	245	246	247	260	268	269	275
22		278	286	289	290	290	290	289	290	288	277	282	253	157	267	276	271	268	276	256	248	242	254	278	290	270
23		299	285	289	299	298	267	238	228	195	261	278	284	277	282	297	281	267	256	256	258	269	277	277	281	271
24	Q	288	286	290	280	288	288	289	289	290	291	289	288	288	290	291	289	269	258	257	268	278	287	288	295	284
25		302	298	300	299	298	288	285	272	267	266	258	217	215	216	245	237	236	246	263	265	279	308	317	310	270
26	D	311	288	297	305	298	250	239	101	28	-46	49	29	-7	144	217	235	248	266	269	267	280	290	291	323	207
27		309	316	301	285	291	234	256	288	289	267	288	289	287	277	205	173	224	244	249	255	266	288	289	280	269
28		279	297	294	286	278	288	309	296	279	289	297	291	295	288	253	219	226	230	216	218	255	274	276	287	272
29		288	277	297	306	299	287	289	246	230	236	296	279	266	288	287	276	267	254	230	244	262	276	292	304	274
30		306	302	286	287	287	287	288	287	270	298	296	295	293	299	297	288	288	258	247	255	266	276	286	290	284
31		296	287	289	298	304	305	293	288	216	244	317	300	297	247	251	264	246	216	229	249	268	286	278	286	273
MEAN A		323	321	319	297	285	273	270	261	240	233	243	231	248	271	268	271	257	249	247	252	262	278	292	302	270
MEAN Q		300	299	295	289	291	289	290	292	292	290	287	291	296	296	294	289	275	265	257	257	265	268	277	291	285
MEAN D		428	430	420	317	236	199	180	132	47	22	41	-34	88	209	197	254	224	226	251	267	269	287	303	331	222

DECLINATION

TABLE 23 MEANOOK

D = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES

AUGUST 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TC 6	TO 7	TO 8	TC 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	Q	35.7	37.4	39.1	39.0	36.7	37.7	37.5	38.6	37.4	36.5	35.4	39.0	43.3	45.6	47.7	50.4	50.4	45.1	38.0	32.2	30.1	30.4	30.7	32.5	38.6
2		36.1	36.1	41.5	35.7	34.9	35.7	35.7	35.9	36.1	39.4	37.2	40.1	42.2	46.4	47.3	49.7	48.9	46.0	42.5	39.1	35.6	32.4	31.9	33.8	39.2
3	Q	34.5	34.6	34.8	34.8	35.7	35.7	36.7	37.7	37.4	39.1	40.2	41.9	44.0	46.5	48.9	50.6	49.7	46.2	41.4	37.7	34.5	31.9	31.1	33.5	39.1
4	Q	35.9	37.2	36.4	36.5	36.4	36.5	36.2	37.0	37.7	39.1	38.2	40.4	42.7	44.8	46.7	45.4	45.1	44.0	40.7	35.1	29.3	27.7	29.5	31.4	37.9
5	Q	34.1	35.6	36.4	37.5	38.8	37.0	35.7	35.9	37.2	37.7	37.7	39.6	40.7	42.8	45.1	46.8	46.2	45.2	41.7	35.7	35.4	32.0	30.9	32.4	38.3
6		34.5	36.4	36.4	35.7	36.5	37.2	37.0	37.5	38.8	41.2	43.5	39.3	41.9	42.3	44.6	45.7	48.6	44.9	43.5	36.7	32.4	29.1	27.9	26.2	38.2
7		27.4	28.5	33.2	32.5	32.5	34.0	35.4	34.8	36.4	38.8	39.1	40.6	43.5	47.0	48.8	50.4	49.9	45.2	40.4	33.8	30.1	29.3	30.3	30.9	37.2
8	D	29.3	31.6	35.4	34.1	34.0	36.5	34.5	48.6	52.0	14.5	32.0	53.5	39.1	43.0	51.5	50.2	51.2	50.1	43.6	37.7	32.5	32.4	29.6	31.1	38.7
9	D	71.3	82.6	69.4	48.8	57.0	57.5	52.0	41.9	30.7	44.4	34.1	18.2	41.5	50.2	52.0	49.9	48.9	46.4	43.3	38.2	35.7	35.6	35.7	36.1	46.7
10		35.7	36.1	37.0	37.2	35.9	37.5	39.1	39.9	40.6	43.8	43.6	37.7	38.2	42.5	47.2	47.0	47.8	44.0	41.2	37.2	34.3	32.5	31.1	31.7	39.1
11		34.2	37.1	36.0	36.0	48.4	37.1	37.3	37.3	36.3	39.2	42.1	41.9	43.4	43.7	46.9	49.2	49.3	48.7	45.3	39.0	34.0	31.6	30.6	32.1	39.9
12		32.4	33.7	30.8	36.9	35.8	33.4	38.9	37.4	42.1	41.1	37.1	37.9	40.6	43.5	45.9	48.5	48.7	49.8	42.9	36.6	28.9	29.2	30.8	32.6	38.1
13		36.3	37.6	37.4	37.3	36.4	36.3	40.3	35.5	37.3	37.4	37.1	40.3	43.7	46.1	50.1	52.9	50.1	45.5	43.5	35.0	29.4	29.2	31.0	35.3	39.2
14		37.3	39.0	37.3	35.6	35.6	35.6	40.3	37.3	35.8	37.7	38.9	40.1	43.7	45.3	47.2	48.5	48.5	43.7	34.2	29.4	29.0	29.4	29.4	31.3	37.9
15		34.0	35.0	35.2	35.6	34.8	35.3	34.0	35.6	37.6	37.9	37.9	40.1	44.0	47.2	47.2	50.0	48.2	45.3	39.5	34.0	28.2	29.2	28.9	30.2	37.7
16		32.4	32.4	32.1	34.7	35.8	40.5	38.5	39.5	37.1	38.7	38.9	40.3	44.3	49.6	51.7	48.7	48.7	45.0	35.6	30.2	29.0	32.3	34.2	11.3	37.6
17	D	34.0	34.7	38.7	1.3	4.9	-10.1	77.2	23.7	49.8	65.4	81.7	60.0	55.4	51.7	58.5	46.6	54.3	56.6	38.7	34.0	27.6	33.2	38.1	39.3	41.5
18	D	44.9	42.8	37.3	40.4	-1.2	31.8	38.8	42.8	48.3	48.4	58.2	21.26.5	67.1	50.2	45.5	51.2	49.4	46.0	29.9	33.8	34.1	33.9	33.9	35.4	44.6
19		42.1	33.9	41.3	40.4	41.2	47.8	42.5	38.6	37.6	36.8	26.0	38.1	42.3	44.6	48.4	49.7	48.3	45.2	43.3	37.0	34.9	33.8	33.9	37.0	40.2
20		38.4	38.6	38.6	38.6	38.8	38.8	38.9	38.4	42.3	45.8	42.0	40.7	46.5	49.7	48.3	48.1	48.9	48.4	44.9	42.1	36.3	33.9	32.0	32.5	41.3
21		34.1	37.2	38.6	37.5	38.0	38.6	38.8	41.7	38.9	37.6	37.3	36.8	43.6	45.7	48.1	51.3	52.0	48.9	44.9	40.0	33.9	32.2	31.8	33.8	40.0
22		35.5	37.2	37.6	38.3	39.1	38.4	38.4	37.6	39.1	40.2	39.9	36.0	35.2	46.3	51.6	52.4	48.7	45.7	41.2	35.5	32.6	30.9	32.2	34.3	39.3
23		36.9	38.5	38.3	37.2	38.2	36.9	41.9	45.3	51.9	45.4	40.1	39.0	40.1	43.3	48.2	49.9	50.1	44.8	40.1	36.1	34.0	33.8	34.6	35.4	40.8
24	Q	35.8	37.2	38.5	39.8	36.9	37.1	37.5	38.3	38.7	38.7	37.1	36.9	39.0	42.0	43.8	44.9	45.3	45.7	41.4	36.7	34.0	35.4	38.3	40.4	39.1
25		43.3	44.5	41.9	42.2	38.0	35.4	36.7	38.5	38.5	38.5	40.1	39.3	39.5	46.9	47.2	43.5	40.3	37.9	36.7	33.8	30.8	33.5	35.3	39.0	39.2
26	D	40.3	40.3	38.7	37.5	44.3	38.7	39.9	50.3	46.4	69.9	50.3	65.2	39.0	39.5	45.4	47.2	41.9	39.1	37.9	36.7	35.3	35.3	36.7	37.2	43.0
27		38.3	40.4	40.6	39.8	40.3	40.3	40.1	38.7	37.1	32.5	35.9	40.3	42.0	43.5	41.2	43.5	40.4	38.7	33.7	30.6	30.8	32.1	31.1	35.3	37.8
28		38.9	40.2	40.0	38.7	38.6	37.4	38.4	37.0	35.5	37.6	38.9	40.3	41.9	44.7	45.2	45.5	41.6	36.1	34.1	27.1	24.4	27.0	28.6	31.5	37.0
29		36.6	39.8	41.1	48.2	40.5	45.6	41.8	38.9	41.8	36.0	37.3	37.6	40.3	47.9	51.9	51.1	47.4	43.4	37.6	32.0	39.4	32.9	35.3	37.8	40.9
30		39.2	38.6	37.1	37.3	37.4	41.8	38.4	38.7	38.2	38.6	38.9	38.7	38.7	43.4	47.4	33.7	48.2	44.7	39.8	37.8	34.1	33.6	35.2	36.6	39.0
31		37.3	38.1	36.8	36.6	36.6	37.6	32.3	39.5	37.0	40.3	40.3	41.3	41.5	43.9	50.5	51.3	47.9	41.9	35.0	29.1	27.3	31.8	35.0	36.8	38.6
MEAN A		37.3	38.5	38.5	36.8	36.0	36.8	39.7	38.7	39.7	40.6	40.5	43.5	42.9	45.5	48.1	48.2	47.9	45.1	39.9	35.2	32.2	31.9	32.4	33.4	39.5
MEAN Q		35.2	36.4	37.0	37.5	36.9	36.8	36.7	37.5	37.6	38.2	37.7	39.5	41.9	44.3	46.4	47.6	47.3	45.2	40.6	35.5	32.7	31.5	32.1	34.0	38.6
MEAN D		44.0	46.4	43.9	32.4	27.8	30.9	48.5	41.4	45.4	48.5	51.3	64.7	48.4	46.9	50.6	49.0	49.1	47.6	38.7	36.1	33.0	34.1	34.8	35.8	42.9

VERTICAL INTENSITY

TABLE 24 MEANOOK

Z = 58000 PLUS TABULAR VALUES IN GAMMAS

AUGUST 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	Q	722	708	706	691	662	680	682	683	677	663	646	678	688	689	689	688	637	680	671	664	672	682	684	690	683
2		688	701	712	713	726	708	681	674	670	666	620	684	687	687	689	690	630	688	671	671	680	681	682	684	688
3	Q	682	681	680	679	680	680	680	678	678	678	678	679	680	679	675	677	676	669	666	663	669	674	678	674	676
4	Q	674	674	678	678	678	677	674	674	668	662	670	674	677	677	680	681	677	677	670	667	668	674	684	688	675
5	Q	689	688	688	688	691	689	686	684	677	678	678	680	682	680	674	669	668	664	660	658	661	666	666	669	676
6		674	674	674	672	671	670	670	673	669	615	637	670	679	679	678	669	671	660	661	660	670	671	680	698	669
7		709	707	688	679	677	679	674	683	679	674	674	675	673	671	677	657	656	652	651	645	652	668	715	749	678
8	D	726	726	742	761	724	686	698	616	452	764	864	726	710	745	710	698	632	687	693	689	674	692	711	735	705
9	D	766	686	653	699	736	691	699	674	626	659	634	529	634	669	697	698	635	683	692	687	688	691	689	687	677
10		687	689	690	692	684	685	691	655	612	621	646	620	644	664	683	673	668	669	669	668	676	683	684	687	668
11		692	686	688	694	678	679	686	678	622	549	611	658	672	666	663	668	678	677	671	676	681	682	686	714	669
12		753	733	744	779	733	599	696	669	621	624	676	678	682	686	686	686	635	681	676	677	688	705	705	687	690
13		686	687	689	681	679	689	697	690	674	657	639	667	686	671	685	683	632	684	681	682	686	714	724	713	684
14		689	685	690	689	702	693	667	672	673	673	672	675	680	681	681	677	631	676	667	666	671	677	684	685	679
15		686	687	697	693	687	695	695	680	679	666	668	672	672	681	682	689	683	674	667	672	672	681	677	685	681
16		699	704	715	705	698	681	704	704	697	661	667	655	651	660	674	681	681	681	672	672	677	678	677	687	683
17	D	785	855	862	455	578	580	719	802	889	523	550	508	630	681	723	693	661	717	719	727	692	710	737	769	690
18	D	761	743	747	729	623	625	641	633	653	619	756	684	463	432	609	662	622	643	701	681	707	709	718	752	663
19		744	767	747	732	730	671	681	692	678	626	583	675	673	684	675	681	630	684	698	695	694	689	692	695	690
20		693	687	685	685	685	686	686	668	622	657	677	666	668	676	685	684	679	677	679	681	685	688	696	697	679
21		711	712	714	713	708	696	686	681	685	680	676	656	683	687	686	685	686	681	679	678	678	684	688	686	688
22		685	680	679	679	685	688	685	679	669	650	667	642	536	618	630	638	650	666	677	685	685	686	687	695	664
23		701	697	696	711	724	629	610	602	553	582	639	660	667	666	670	684	683	680	678	676	677	684	685	685	665
24	Q	685	678	682	686	679	677	676	676	676	675	677	679	681	670	666	666	675	679	677	677	684	687	695	695	679
25		696	688	686	685	680	676	665	650	615	631	613	573	556	554	621	615	630	642	673	685	698	707	713	706	653
26	D	713	707	695	698	694	629	634	476	545	666	649	462	558	642	617	622	638	658	689	704	715	717	715	724	649
27		723	753	718	706	669	600	633	660	656	619	669	681	683	676	629	580	612	638	658	668	688	704	715	703	668
28		685	680	685	679	681	696	715	699	667	668	686	680	679	677	657	621	623	647	667	683	702	719	717	716	680
29		706	698	692	717	721	710	680	734	724	599	651	675	636	673	673	682	633	694	693	704	706	701	698	701	690
30		708	715	706	706	697	679	673	668	650	674	683	683	679	678	679	683	689	688	686	687	689	691	688	685	686
31		683	680	678	678	679	696	661	631	688	699	679	677	686	642	623	641	648	660	677	689	710	706	697	686	675
MEAN A		707	705	703	692	689	672	678	669	656	648	665	652	654	663	670	668	668	673	677	679	684	690	696	701	677
MEAN Q		691	686	687	684	682	681	680	679	675	671	670	678	681	679	677	676	677	674	669	666	671	677	681	683	678
MEAN D		750	743	740	669	671	642	678	640	633	646	691	582	599	634	671	674	658	678	699	698	695	704	714	734	677

HORIZONTAL INTENSITY

TABLE 25 MEANOOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

SEPTEMBER 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TC 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	D	289	294	296	297	298	295	306	131	-0	124	-220	186	347	321	275	218	234	237	241	260	276	308	320	306	235
2		296	296	276	281	287	298	299	295	294	264	-35	195	273	288	275	274	252	225	233	256	276	273	286	293	260
3		287	286	295	294	298	277	276	284	253	155	212	47	143	314	296	257	268	252	251	236	255	255	310	263	253
4		297	287	286	286	278	286	293	257	257	297	295	267	272	289	287	265	243	253	247	246	253	265	276	298	274
5		284	293	294	292	290	295	294	286	286	285	284	286	275	273	284	244	240	242	239	242	242	276	272	272	274
6	Q	276	286	289	295	292	293	286	292	293	295	295	294	294	293	274	263	254	246	236	245	263	274	285	277	279
7		295	287	288	286	289	291	290	292	294	239	292	298	290	287	293	286	268	258	254	260	273	269	276	277	283
8		284	283	286	293	295	294	296	286	254	289	295	292	294	282	244	245	261	253	238	241	237	255	276	273	273
9	Q	274	282	285	288	298	296	296	294	293	292	287	286	290	285	284	275	274	272	255	261	260	266	284	293	282
10		308	303	289	319	306	293	282	284	284	233	282	283	281	279	275	264	251	241	240	258	263	274	290	293	280
11	Q	286	282	282	284	284	284	285	286	287	287	289	288	286	286	285	273	262	246	243	257	268	280	294	296	279
12	Q	292	300	289	299	291	291	286	197	199	306	295	294	293	293	284	279	263	257	260	262	274	288	293	295	278
13	D	293	284	293	293	304	295	295	117	-76	-221	-71	23	-46	-93	221	197	252	252	273	256	252	292	338	344	182
14	D	286	321	293	279	280	282	291	284	260	262	281	-118	159	109	147	145	217	256	257	242	250	264	284	308	235
15		287	292	333	323	324	244	289	270	272	231	271	260	252	274	284	271	260	235	240	251	264	282	266	284	277
16		283	282	274	286	283	284	282	239	252	284	272	265	270	272	283	281	259	247	242	252	264	273	292	291	271
17		291	285	284	281	284	301	241	283	271	291	290	290	285	290	284	272	261	249	249	259	267	283	283	284	277
18		293	284	290	292	283	283	281	236	237	281	292	294	290	282	281	262	265	248	242	260	270	290	284	282	275
19		291	290	286	283	280	260	293	268	157	86	189	271	274	247	272	283	258	246	237	249	252	301	283	285	256
20		284	288	283	283	285	284	283	282	229	138	245	261	253	249	255	260	273	272	272	287	268	286	303	302	268
21	D	300	318	309	300	292	303	246	87	92	292	302	244	67	139	207	236	238	234	243	273	284	282	281	292	244
22		290	283	286	290	290	254	289	281	260	208	253	279	271	291	284	281	261	231	242	260	270	282	289	295	273
23		291	283	280	282	281	283	282	269	241	146	188	289	282	291	290	290	280	269	262	268	277	281	290	290	270
24		283	281	283	282	288	291	280	263	261	272	293	291	291	285	289	282	270	260	260	259	274	281	282	280	278
25		280	282	289	289	279	293	314	282	158	282	301	292	291	290	281	273	258	248	240	260	270	280	283	284	275
26		282	289	291	285	284	292	291	285	282	288	292	298	293	296	292	281	265	252	249	251	263	274	287	281	281
27	D	268	273	284	318	353	389	387	217	179	269	186	209	289	289	261	248	249	250	230	237	249	296	300	294	272
28		300	290	287	269	273	280	280	279	281	283	289	289	289	290	289	280	270	263	256	259	263	264	271	269	278
29	Q	278	281	288	291	296	291	290	289	288	290	293	292	291	289	288	280	268	267	259	259	261	279	278	269	281
30		282	293	291	297	308	299	293	291	292	291	291	299	299	295	294	289	275	265	258	259	269	270	276	290	286
MEAN A		288	289	289	291	292	293	290	257	231	240	234	245	258	262	272	262	258	251	248	256	264	278	288	289	268
MEAN Q		281	286	286	291	292	291	288	272	272	294	292	291	291	289	283	274	264	258	251	257	265	277	287	286	280
MEAN D		287	298	295	297	305	313	305	167	91	145	96	109	163	153	222	209	238	246	249	254	262	288	304	309	234

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

DECLINATION

TABLE 26 MEANOOK

D = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES

SEPTEMBER 1970

HOUR UT DAY		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TC 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	D	37.1	37.1	37.0	37.0	37.1	37.0	35.0	58.0	48.4	46.6	42.1	56.3	51.3	59.3	57.9	50.0	43.1	38.1	33.7	33.6	26.6	29.1	28.9	30.8	41.3
2		33.4	35.0	33.6	35.2	35.2	35.3	36.0	36.8	38.2	40.2	44.0	46.4	50.6	46.1	46.9	44.7	45.0	45.0	38.7	32.9	31.5	31.2	33.6	35.7	38.8
3		36.9	37.2	36.7	38.6	42.2	35.2	35.4	35.6	33.1	45.2	48.1	37.0	51.5	48.1	51.5	53.3	48.3	43.1	39.7	35.1	33.6	33.6	32.2	32.7	40.2
4		30.6	32.2	33.8	35.2	36.7	37.0	36.9	32.8	41.8	39.9	38.8	41.7	41.0	43.3	48.1	48.8	47.8	43.5	40.1	35.4	33.3	31.9	32.0	32.0	38.1
5		35.4	35.6	35.7	38.1	41.5	38.0	38.1	37.8	38.3	38.6	38.1	40.2	40.1	44.6	48.1	49.6	44.7	42.0	36.7	34.0	30.2	28.0	30.4	32.2	38.2
6	Q	35.2	36.7	37.0	38.0	37.7	37.7	36.7	36.9	36.9	38.5	38.5	39.7	41.5	43.3	44.9	45.1	44.9	42.8	36.9	27.2	27.4	28.0	30.4	33.6	37.3
7		35.2	38.1	38.1	37.2	37.0	36.9	37.2	38.1	38.6	38.8	39.9	40.2	40.1	43.6	48.1	47.8	46.5	42.0	38.6	36.7	33.8	31.9	31.5	34.6	38.8
8		36.6	36.4	36.3	35.9	36.4	36.6	41.6	38.4	34.7	37.1	40.0	41.7	41.7	44.3	43.0	43.2	43.2	43.5	42.9	34.8	31.9	35.0	35.0	35.3	38.6
9	Q	36.8	36.6	36.6	36.8	36.6	35.0	35.0	35.3	38.2	39.6	40.0	41.3	42.1	44.6	47.5	49.3	45.1	41.6	39.8	35.3	34.0	32.1	31.8	32.2	38.5
10		42.4	35.1	33.0	28.7	35.1	36.4	36.9	35.5	36.9	38.7	39.8	40.3	41.6	43.5	44.6	46.2	45.1	42.9	39.5	36.8	35.1	35.3	36.4	36.9	38.5
11	Q	38.0	36.9	36.9	37.9	38.0	38.2	38.4	38.5	38.8	39.5	40.0	40.3	41.6	43.8	46.4	48.2	48.3	46.2	40.8	38.0	35.3	35.3	37.2	37.6	40.0
12	Q	36.9	35.8	36.1	35.3	46.4	49.6	40.0	35.0	35.1	41.6	40.8	40.9	43.0	44.6	45.6	46.1	45.1	42.4	35.9	34.8	33.5	34.3	36.6	37.1	39.7
13	D	36.8	36.6	36.4	36.6	41.9	49.8	40.3	39.6	35.0	35.5	61.2	64.4	68.6	78.0	51.4	49.5	44.0	37.9	33.4	34.3	30.5	31.1	31.9	34.0	43.3
14	D	37.1	43.4	38.5	37.7	36.6	36.8	38.7	39.2	35.8	40.8	41.7	27.3	47.2	41.4	47.2	43.2	40.0	40.1	36.9	35.1	34.7	31.4	35.1	35.3	38.4
15		38.4	40.2	45.7	44.9	42.0	37.0	36.5	33.4	35.4	39.1	40.2	42.9	41.6	47.0	46.8	46.5	45.3	43.6	36.5	35.4	34.9	35.0	35.5	38.1	40.1
16		39.9	40.0	43.4	38.1	36.8	40.5	36.3	32.1	39.7	41.5	38.4	41.0	39.9	40.5	44.7	44.9	46.3	44.9	40.0	35.0	32.0	33.1	36.2	38.3	39.3
17		38.4	38.6	39.5	38.3	39.7	46.0	36.7	41.6	33.8	39.1	38.4	40.0	41.0	43.3	46.0	46.3	45.7	40.2	34.6	30.5	30.2	32.1	34.7	36.7	38.8
18		38.3	39.4	39.6	41.2	40.9	39.8	38.2	35.1	46.2	41.5	39.8	40.1	41.4	43.2	43.6	44.6	45.1	44.4	34.0	33.5	31.6	33.7	35.6	36.7	39.5
19		38.2	38.2	38.3	37.5	38.6	46.5	42.5	42.3	43.2	57.6	49.4	42.7	41.5	41.5	46.0	47.8	46.0	44.8	35.3	32.0	28.2	30.1	33.0	36.2	40.7
20		38.2	38.3	37.8	38.0	38.2	53.3	43.5	39.9	38.3	41.4	41.7	41.1	44.1	42.8	43.0	44.4	44.3	41.5	39.0	35.1	31.7	34.3	35.1	37.7	40.1
21	D	37.4	38.5	44.9	46.9	39.8	41.2	42.0	52.8	54.3	45.7	41.9	42.3	31.4	33.0	41.5	46.5	45.7	46.0	39.1	32.5	31.6	33.3	34.9	36.9	40.8
22		38.5	43.2	47.3	37.8	51.2	35.8	38.0	37.8	35.3	33.3	42.3	41.9	44.3	43.0	43.6	45.6	44.4	39.9	33.8	32.2	33.3	35.3	36.9	37.0	39.8
23		39.4	38.0	36.7	36.7	36.9	36.6	44.1	41.5	48.1	43.2	57.3	47.8	43.6	45.1	45.9	46.0	44.8	42.8	40.3	35.9	34.1	34.6	35.1	36.4	41.3
24		36.6	38.2	38.0	39.3	37.7	36.4	38.2	39.4	44.6	42.8	42.5	40.1	39.9	41.4	43.0	45.6	46.4	46.0	42.5	37.0	35.9	35.1	35.4	36.4	39.9
25		36.5	36.5	36.5	36.3	40.6	34.8	35.8	41.1	23.7	49.3	41.6	39.7	39.7	41.1	42.9	44.3	44.8	41.8	33.4	28.6	30.2	31.9	35.0	37.1	37.6
26		37.9	36.8	36.1	38.1	37.7	33.7	36.5	35.3	35.2	41.0	39.7	41.0	41.4	41.1	44.3	46.3	44.3	41.1	37.7	36.3	31.6	31.9	33.4	34.7	38.0
27	D	34.8	33.1	32.3	28.2	31.5	33.1	30.0	39.8	44.8	41.1	44.3	46.1	41.6	44.2	41.3	40.0	36.1	36.3	29.7	28.1	29.8	33.1	34.8	34.5	36.2
28		34.7	36.6	36.5	37.9	38.4	37.9	37.9	38.1	38.2	38.2	39.3	39.8	39.8	41.6	43.2	45.9	46.3	44.3	41.1	37.9	36.6	36.1	36.1	36.3	39.1
29	Q	36.1	35.8	36.3	36.0	35.8	36.5	36.8	38.1	39.7	38.2	38.2	38.4	39.3	40.8	41.6	42.7	44.2	42.6	39.5	36.8	35.2	33.4	34.5	34.8	38.0
30		34.5	34.5	34.8	37.1	41.3	36.1	34.7	36.6	37.7	38.2	39.7	39.8	41.0	42.1	43.2	44.8	45.9	43.1	40.8	38.2	35.0	34.5	34.4	33.6	38.4
MEAN A		36.9	37.3	37.7	37.3	38.8	38.9	37.8	38.8	38.9	41.1	42.3	42.1	43.1	44.7	45.7	46.2	44.9	42.5	37.7	34.3	32.4	32.9	34.1	35.4	39.2
MEAN Q		36.6	36.4	36.6	36.8	38.9	39.4	37.4	36.7	37.7	39.5	39.5	40.1	41.5	43.4	45.2	46.3	45.5	43.1	38.6	34.4	33.1	32.6	34.1	35.1	38.7
MEAN D		36.6	37.7	37.8	37.3	37.4	39.6	37.2	45.9	43.6	41.9	46.3	47.3	48.0	51.2	47.9	45.8	41.8	39.7	34.6	32.7	30.6	31.6	33.1	34.3	40.0

VERTICAL INTENSITY

TABLE 27 MEANOOK

Z = 58000 PLUS TABULAR VALUES IN GAMMAS

SEPTEMBER 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	D	679	678	679	678	677	677	638	441	443	638	619	637	723	704	658	631	635	656	664	677	680	707	716	717	654
2		715	725	699	687	687	697	685	685	682	662	458	549	554	685	682	683	677	676	692	687	702	697	692	687	669
3		682	680	686	704	723	697	678	676	593	547	611	599	545	698	697	668	676	683	683	687	689	698	716	706	668
4		705	704	697	689	686	678	680	650	638	676	680	666	667	678	686	677	678	689	686	688	689	696	691	695	682
5		696	693	687	687	688	685	682	679	676	677	673	678	672	668	672	661	670	666	667	667	677	685	696	698	679
6	Q	685	680	679	679	678	677	678	677	672	676	677	677	677	676	668	667	667	668	669	668	670	677	684	678	675
7		679	682	680	676	675	675	676	676	678	677	669	679	670	667	677	678	678	677	677	678	681	681	686	680	677
8		679	678	678	677	678	681	698	680	602	641	671	677	680	671	642	639	656	668	671	682	682	686	689	688	671
9	Q	679	678	677	677	681	688	698	695	692	687	683	679	679	679	678	678	676	675	673	680	687	700	709	708	685
10		725	716	718	743	746	726	697	687	691	685	681	683	681	681	686	688	631	690	688	688	688	687	686	679	697
11	Q	677	677	678	678	678	678	678	678	677	678	678	678	679	679	681	680	679	678	677	676	678	679	678	673	678
12	Q	670	674	674	674	684	658	662	585	580	680	680	679	675	675	683	684	679	674	679	679	679	679	674	670	668
13	D	668	668	673	671	684	628	674	632	833	627	586	553	599	588	542	651	658	675	683	693	717	745	760	711	666
14	D	711	722	718	712	688	683	674	630	598	633	657	489	577	467	560	580	636	674	698	707	727	724	708	715	656
15		714	726	761	733	754	725	694	650	669	688	668	641	639	661	681	680	636	685	686	687	690	701	696	696	692
16		688	687	697	688	688	698	691	624	603	660	668	658	677	680	681	687	639	688	689	688	688	687	688	686	678
17		686	686	687	697	699	660	558	667	643	678	683	684	680	679	678	677	677	672	678	680	686	695	692	687	675
18		686	688	689	696	698	690	686	553	580	652	670	689	685	679	673	671	675	680	681	680	689	697	695	682	674
19		680	680	683	681	697	633	689	624	523	462	529	643	665	661	668	670	666	677	689	700	716	719	717	700	657
20		695	692	686	679	686	695	651	686	621	638	621	643	618	602	620	621	653	670	679	689	687	696	704	708	664
21	D	751	754	715	597	707	708	659	407	422	657	697	663	521	511	543	604	649	670	700	716	698	697	688	690	643
22		687	705	699	697	667	670	688	682	658	574	595	661	662	680	678	677	675	669	667	667	673	681	688	693	671
23		697	696	686	678	675	676	672	638	601	634	525	647	649	650	667	667	679	685	684	687	688	688	689	688	664
24		693	687	686	689	695	697	687	674	669	651	679	681	680	678	680	683	636	686	687	688	687	695	688	686	684
25		678	677	678	686	699	706	699	696	490	621	686	679	679	679	675	674	674	673	674	675	681	683	683	680	672
26		677	678	680	688	689	697	688	678	669	668	678	677	672	678	677	677	678	678	678	677	680	685	688	689	680
27	D	696	699	708	743	743	682	639	652	582	667	637	577	641	657	632	651	671	696	693	686	678	699	716	735	674
28		750	721	685	685	681	677	678	677	677	676	675	670	671	679	684	673	669	670	677	677	678	678	678	676	682
29	Q	676	676	675	675	676	677	684	684	674	670	671	669	674	675	677	677	678	678	671	675	675	678	677	674	676
30		674	674	675	685	696	690	677	675	675	671	672	669	668	669	675	671	669	669	666	667	670	675	676	677	674
MEAN	A	693	693	690	688	693	684	676	648	627	648	646	649	652	658	660	664	671	677	680	683	687	693	695	692	673
MEAN	Q	677	677	677	677	679	676	680	664	659	678	678	676	677	677	676	677	677	676	673	676	678	682	684	681	676
MEAN	D	701	704	699	680	700	675	667	575	576	644	639	584	612	586	587	623	650	674	687	696	700	714	718	714	659

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

HORIZONTAL INTENSITY

TABLE 28 MEANOOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

OCTOBER 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TC 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		289	281	289	289	288	288	298	295	294	290	289	292	290	290	280	279	270	267	252	235	250	269	292	299	281
2		300	290	286	286	287	288	289	289	290	286	288	289	289	290	279	280	265	247	240	249	256	278	281	282	279
3		290	289	300	301	296	290	290	289	289	297	295	291	289	291	278	267	258	269	256	248	257	278	270	299	282
4	D	297	312	309	426	321	319	252	208	246	238	106	137	239	238	266	278	269	250	256	268	277	280	281	292	265
5		290	291	287	297	290	290	239	249	287	249	288	289	289	290	288	281	270	258	255	247	265	268	279	282	276
6		287	285	288	290	289	298	297	289	280	286	277	278	288	288	287	278	267	261	256	255	268	278	277	283	280
7	Q	287	288	289	289	288	288	288	294	289	290	290	289	287	288	290	279	265	251	246	247	263	268	279	280	280
8	Q	285	289	288	288	289	289	289	291	291	292	293	293	292	291	289	284	267	256	254	259	267	278	286	285	283
9	Q	282	288	289	291	292	291	293	292	296	296	297	296	296	297	296	288	276	259	252	261	274	285	287	287	286
10		288	288	292	295	296	293	286	176	306	303	298	298	290	290	288	279	267	252	242	249	259	267	279	283	274
11		298	350	366	412	334	350	246	143	26	49	123	122	139	215	235	226	238	246	249	256	279	289	297	298	241
12		311	431	456	444	410	298	207	205	122	150	155	256	286	287	297	286	269	260	265	266	267	269	277	278	281
13		277	279	285	283	277	258	266	255	301	295	287	287	236	286	295	266	255	254	256	255	265	278	276	279	273
14		285	267	276	277	280	288	279	227	225	278	267	277	278	286	286	276	257	251	251	256	265	275	279	278	269
15	Q	276	278	288	286	286	287	282	279	281	282	288	287	291	294	288	287	268	255	248	256	267	266	276	279	278
16	D	283	287	287	287	287	287	289	290	289	291	165	-299	-240	122	294	234	103	135	144	201	263	257	255	238	198
17	D	250	257	265	260	257	245	151	30	-11	-70	34	-33	-76	-124	17	28	-54	92	121	165	289	420	511	481	146
18	D	512	566	563	481	330	247	226	156	97	206	277	248	225	266	262	227	242	258	254	247	247	264	257	266	289
19		278	278	277	269	287	275	265	224	82	267	246	238	246	245	267	268	255	259	262	256	246	258	264	267	253
20		276	275	276	276	280	287	226	213	247	143	214	257	243	277	286	285	279	273	263	256	259	266	267	277	258
21	Q	283	286	287	287	287	287	286	287	287	287	288	288	288	287	286	279	269	258	256	266	276	279	280	279	281
22		277	288	289	312	338	327	295	255	214	267	257	207	138	230	234	245	246	233	226	213	223	297	330	415	265
23	D	412	389	368	338	340	224	186	204	175	50	98	145	259	258	173	136	215	244	254	245	305	286	267	329	246
24		309	277	276	296	295	288	212	256	-3	274	237	204	234	259	254	278	274	263	253	256	262	264	277	276	253
25		283	277	276	276	286	286	289	245	285	287	277	277	267	247	274	278	258	259	259	264	266	270	272	277	272
26		286	285	281	284	287	288	287	288	289	286	278	267	286	286	289	288	235	276	267	266	269	277	276	278	281
27		279	288	296	295	294	295	295	293	289	296	297	296	295	289	295	292	236	277	267	269	279	277	278	277	287
28		289	295	287	307	334	328	329	317	299	295	289	291	287	288	277	285	234	278	266	244	255	264	244	286	288
29		275	284	287	286	288	298	296	298	297	287	289	288	287	276	289	286	265	250	233	228	229	277	283	286	278
30		276	285	287	296	288	288	286	286	285	267	286	277	287	286	284	269	259	256	255	248	257	267	277	286	277
31		287	291	290	295	295	296	295	294	290	287	297	290	288	288	285	276	274	261	264	263	267	277	279	279	284
MEAN A		297	304	306	310	300	289	266	249	233	245	247	233	238	258	268	261	249	249	246	248	264	278	285	293	267
MEAN Q		282	286	288	288	288	288	288	289	289	289	291	291	291	291	290	283	269	256	251	258	269	275	281	282	281
MEAN D		351	362	358	359	307	265	221	177	159	143	136	40	81	152	203	181	155	196	206	225	276	301	314	321	229

DECLINATION

TABLE 29 MEANOOK

D = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES

OCTOBER 1970

HOUR UT DAY	0 TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 5	5 TO 6	6 TO 7	7 TO 8	8 TO 9	9 TO 10	10 TO 11	11 TO 12	12 TO 13	13 TO 14	14 TO 15	15 TO 16	16 TO 17	17 TO 18	18 TO 19	19 TO 20	20 TO 21	21 TO 22	22 TO 23	23 TO 24	MEAN
1	35.3	38.2	36.5	36.6	37.7	45.8	38.1	36.5	36.5	37.9	39.7	39.7	39.8	40.8	43.4	42.6	44.3	43.5	43.2	36.8	27.4	31.3	32.3	31.3	38.1
2	33.1	33.0	35.1	37.6	37.8	37.5	38.0	38.0	38.3	39.6	45.8	41.5	42.6	39.9	42.8	44.6	46.2	46.2	39.4	36.4	33.0	31.5	32.8	33.3	38.5
3	29.9	31.4	31.4	36.0	40.7	36.4	36.5	37.6	38.1	41.3	39.9	39.7	39.9	41.2	44.6	46.0	40.9	38.1	39.2	36.2	34.9	31.5	31.7	33.8	37.4
4	D 32.5	28.3	31.0	30.1	47.5	41.0	39.4	46.5	36.2	42.8	39.6	33.1	37.6	37.8	39.6	45.8	45.5	43.9	39.2	36.7	35.4	36.8	36.2	36.4	38.3
5	34.9	36.2	41.5	39.4	36.8	39.6	27.3	41.0	39.7	34.7	38.1	39.9	40.9	42.3	46.0	49.4	49.2	46.0	40.9	38.0	36.2	34.9	36.4	36.4	39.4
6	36.2	36.7	38.1	36.2	36.8	38.0	37.5	38.1	36.5	39.1	38.1	37.8	39.7	42.3	44.4	46.0	45.8	43.0	41.0	37.6	34.7	34.7	34.7	36.2	38.7
7	Q 36.4	37.5	37.7	37.7	37.9	37.5	37.7	37.9	36.4	38.0	39.5	39.8	40.0	40.8	42.7	45.1	45.3	43.5	41.2	37.5	35.0	35.1	35.0	36.1	38.8
8	Q 36.3	35.9	36.4	37.2	37.5	36.6	37.4	37.7	39.0	38.7	39.1	39.3	39.5	40.6	42.5	44.1	44.6	43.7	40.4	35.4	33.2	34.3	34.6	34.8	38.3
9	Q 35.9	35.9	36.3	36.4	36.4	36.7	37.5	37.9	39.1	39.3	39.5	40.8	39.5	41.1	42.9	44.3	45.6	43.0	39.3	34.6	34.0	34.6	35.9	36.6	38.5
10	36.3	36.3	36.4	36.6	36.3	35.0	21.8	33.0	44.0	40.3	40.1	39.8	40.8	41.1	44.0	45.7	47.2	42.7	42.5	31.4	29.2	29.3	29.8	28.5	37.0
11	26.6	24.7	26.6	36.1	35.4	35.0	24.8	39.5	58.5	63.5	57.2	45.7	59.6	54.9	45.9	39.3	37.7	34.6	34.3	30.0	32.7	35.3	33.5	31.1	39.3
12	31.9	31.6	30.3	28.8	41.1	38.0	49.6	50.6	46.6	44.9	52.2	49.3	43.0	43.7	44.1	45.3	44.6	42.9	41.1	39.5	38.5	38.2	38.0	38.2	41.3
13	37.6	36.5	37.6	37.4	37.3	47.3	45.6	36.3	37.9	38.1	39.4	39.7	35.2	42.6	43.1	39.7	36.3	38.2	33.9	34.7	34.2	35.8	37.8	37.8	38.3
14	36.3	36.8	36.3	38.1	42.8	36.5	37.3	40.2	41.3	40.8	41.0	42.9	42.8	42.6	43.4	44.4	44.5	41.8	39.4	35.2	34.4	34.5	36.2	37.1	39.4
15	Q 35.8	37.6	37.8	37.8	37.9	37.0	36.2	37.1	37.6	38.6	39.4	39.7	40.0	39.4	40.3	43.4	45.6	43.9	39.4	35.8	34.5	35.0	36.0	36.5	38.4
16	D 36.3	36.5	37.6	37.4	37.1	37.9	37.4	36.5	36.3	36.2	38.1	52.7	75.0	68.7	47.4	44.2	49.5	40.8	41.3	19.9	42.3	35.8	37.8	37.8	41.7
17	D 37.9	37.8	39.2	36.5	36.5	39.5	58.5	51.1	63.7	55.1	52.1	57.6	60.5	57.4	39.5	41.3	48.9	44.5	32.6	24.7	31.3	41.3	45.8	39.4	44.7
18	D 34.8	34.5	44.9	36.3	37.7	36.6	44.8	37.7	65.1	51.4	41.4	42.5	33.4	36.9	39.1	36.4	39.5	39.1	37.9	33.0	32.7	33.2	34.8	35.0	39.1
19	37.4	37.9	38.2	37.7	37.4	39.3	40.6	42.5	34.3	43.0	41.2	43.0	43.5	41.4	42.9	43.0	43.5	41.2	39.0	39.3	37.9	36.4	36.3	36.1	39.7
20	35.1	36.1	36.4	39.0	40.9	42.5	39.5	36.1	43.8	39.1	40.9	41.2	39.6	42.7	44.0	44.6	45.9	42.7	41.1	39.1	37.7	36.4	36.4	37.5	39.9
21	Q 37.5	37.7	37.7	37.7	37.9	37.9	37.9	37.7	37.9	38.2	39.1	39.5	39.6	40.9	42.9	45.3	45.6	42.9	38.2	36.1	34.8	34.8	35.9	36.3	38.7
22	36.4	34.2	34.5	30.3	35.8	37.7	39.5	34.8	41.1	47.2	47.5	49.1	47.8	63.5	52.7	44.3	37.5	31.4	32.7	34.0	31.1	31.6	36.7	32.9	39.3
23	D 33.0	31.8	40.7	41.3	37.6	49.7	45.8	45.7	43.1	48.9	41.7	47.5	44.4	41.3	34.9	28.3	30.6	34.4	35.5	30.1	32.6	33.1	30.9	29.6	38.0
24	34.7	35.2	37.6	38.1	37.8	41.5	36.5	39.7	49.2	47.9	46.3	47.3	47.5	41.8	39.6	43.1	44.6	43.0	39.9	39.4	37.0	38.0	38.3	38.1	40.9
25	38.0	37.5	38.0	41.0	37.8	38.0	38.3	31.7	39.4	41.0	39.9	42.5	43.9	39.7	41.0	44.1	43.1	42.5	39.4	36.4	36.0	36.5	36.8	37.0	39.1
26	36.7	36.5	36.8	38.0	38.0	37.8	37.6	37.6	38.0	37.8	41.3	43.0	44.6	42.6	43.9	45.7	44.6	42.1	38.3	36.2	36.4	36.7	37.2	36.5	39.3
27	36.4	37.3	37.2	37.8	38.0	38.0	38.0	38.3	37.8	39.4	39.6	40.5	40.9	41.7	44.4	46.0	44.6	43.9	39.6	38.3	37.8	36.5	36.4	38.0	39.4
28	35.0	31.6	36.3	31.6	29.7	36.1	38.4	38.1	38.2	38.4	40.2	41.1	41.6	41.6	44.7	39.3	37.6	37.6	38.4	33.1	34.8	35.5	39.3	39.8	37.4
29	39.7	39.3	38.5	38.2	38.1	39.8	34.8	39.5	38.1	41.3	41.4	41.4	43.4	47.9	44.7	46.1	48.0	42.7	39.7	34.8	29.8	31.3	34.5	35.2	39.5
30	36.6	38.1	46.3	39.3	41.4	38.1	38.1	37.9	38.1	37.7	39.5	38.2	41.0	41.3	43.1	45.9	46.3	46.3	41.3	38.1	36.6	36.0	36.3	36.5	39.9
31	36.5	36.8	36.9	37.7	37.7	38.1	36.1	36.9	38.6	33.2	38.4	39.7	41.1	41.3	42.9	43.1	44.2	42.2	39.5	38.1	36.5	36.1	36.6	37.7	38.5
MEAN A	35.4	35.3	37.0	36.8	38.0	38.9	38.3	39.0	41.5	41.7	41.8	42.4	43.5	43.9	43.1	43.4	43.8	41.7	39.0	35.0	34.6	34.9	35.8	35.7	39.2
MEAN Q	36.4	36.9	37.2	37.4	37.5	37.1	37.3	37.6	38.0	38.5	39.3	39.8	39.7	40.5	42.3	44.4	45.3	43.4	39.7	35.9	34.3	34.8	35.5	36.0	38.5
MEAN D	34.9	33.8	38.7	36.3	39.3	41.0	45.2	43.5	48.9	46.9	42.6	46.7	50.2	48.4	40.1	39.2	42.8	40.6	37.3	28.9	34.9	35.9	37.1	35.6	40.4

VERTICAL INTENSITY

TABLE 30 MEANOOK

Z = 58000 PLUS TABULAR VALUES IN GAMMAS

OCTOBER 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		T0 1	T0 2	T0 3	T0 4	T0 5	TC 6	T0 7	T0 8	T0 9	T0 10	T0 11	T0 12	T0 13	T0 14	T0 15	TC 16	T0 17	T0 18	T0 19	T0 20	T0 21	T0 22	T0 23	T0 24	
1		681	685	678	676	677	678	669	679	677	676	669	670	668	670	668	675	674	675	671	672	673	687	694	703	677
2		733	706	689	676	674	675	676	674	673	657	656	671	667	670	669	677	631	678	681	675	679	683	682	683	679
3		686	689	707	713	697	680	679	577	675	677	677	675	669	676	676	674	668	665	673	677	684	692	697	713	683
4	D	689	704	726	684	647	728	678	509	527	648	641	640	666	667	695	690	636	698	694	703	703	695	695	696	672
5		685	686	695	703	686	661	552	602	666	639	666	676	676	678	684	686	635	681	678	679	683	681	680	678	670
6		677	680	680	684	693	657	682	678	674	678	666	665	667	675	680	681	632	681	680	683	685	686	685	684	680
7	Q	682	678	677	677	675	675	676	659	656	673	675	674	668	670	675	675	676	676	670	668	677	682	683	677	674
8	Q	675	675	675	676	675	674	675	675	674	673	674	673	672	675	676	676	677	675	667	665	666	672	672	673	673
9	Q	674	674	673	672	673	674	675	675	670	671	667	666	667	669	675	675	674	674	671	671	672	676	675	674	672
10		672	672	672	672	680	675	610	567	671	685	678	678	671	671	671	671	671	671	666	665	674	687	704	715	670
11		827	802	813	765	756	731	694	685	708	707	595	597	563	577	572	584	609	548	671	693	691	683	701	707	678
12		732	789	832	734	620	714	587	562	657	582	640	630	672	676	689	687	640	642	688	694	694	692	685	684	676
13		678	678	678	678	679	681	684	626	675	686	677	668	600	637	665	661	659	667	673	677	686	687	686	686	670
14		690	693	694	694	695	684	677	628	583	657	653	646	648	665	676	679	631	682	680	681	685	690	690	693	673
15	Q	695	694	689	684	675	683	681	672	660	665	668	671	676	675	673	675	678	676	673	674	677	677	678	677	677
16	D	676	675	675	675	676	677	676	674	673	655	572	420	410	468	633	615	624	676	721	754	714	710	717	721	645
17	D	716	711	721	704	705	684	591	524	544	554	592	535	520	421	437	599	664	677	679	714	761	788	701	656	633
18	D	645	569	467	544	721	696	694	571	562	579	654	646	648	669	674	664	635	701	702	691	684	697	705	704	649
19		711	702	701	700	674	693	630	523	646	647	620	617	607	631	656	658	673	690	703	709	706	703	702	702	666
20		701	703	705	713	713	705	646	631	645	563	559	626	603	648	664	665	671	674	678	683	684	685	684	683	664
21	Q	682	681	679	679	679	680	680	678	676	676	675	675	674	677	679	678	678	676	678	677	681	680	679	682	678
22		683	693	710	746	769	743	711	626	502	589	644	635	597	573	579	571	532	605	639	666	701	744	750	760	659
23	D	762	768	751	710	667	610	636	645	648	628	565	580	618	634	636	603	634	675	712	733	751	748	705	743	673
24		730	701	702	724	715	686	673	675	598	648	628	579	609	657	672	682	632	693	695	705	704	694	694	692	677
25		693	688	686	690	683	683	657	530	646	671	664	663	657	655	663	672	673	685	690	691	692	691	684	683	672
26		684	683	683	683	684	683	681	678	675	663	639	630	645	655	663	668	674	678	681	682	682	682	683	683	673
27		681	679	680	682	681	681	683	680	669	672	674	673	672	671	674	677	678	676	677	675	679	681	681	681	677
28		682	690	689	710	742	728	709	711	695	691	683	681	672	674	673	679	676	680	691	694	710	709	701	708	695
29		694	685	680	675	679	690	667	700	699	683	685	672	668	654	680	676	674	679	683	700	708	718	734	730	688
30		711	711	731	721	728	699	683	680	681	654	671	674	675	681	682	684	633	695	690	690	689	688	687	680	691
31		681	678	676	676	678	682	683	682	675	643	681	680	673	674	675	677	678	679	682	683	683	682	681	676	677
MEAN A		697	694	694	691	690	688	666	643	644	651	649	642	639	644	657	662	667	671	681	688	692	696	693	694	672
MEAN Q		682	680	679	678	675	677	677	572	667	672	672	672	671	673	675	676	676	675	672	671	675	677	677	677	675
MEAN D		698	685	668	663	683	679	655	585	591	613	605	564	573	572	615	634	662	685	701	719	723	728	705	704	655

HORIZONTAL INTENSITY

TABLE 31 MEANOOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

NOVEMBER 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TC 6	TO 7	TO 8	TC 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	Q	285	287	294	296	297	296	296	295	290	290	288	288	296	294	289	283	275	266	264	258	266	267	278	283	284
2		287	292	295	296	297	297	296	295	249	286	308	296	267	277	296	295	294	284	272	267	268	278	279	286	286
3		283	288	300	298	296	297	298	297	295	287	297	296	291	290	287	280	277	267	266	266	269	265	266	278	285
4		285	297	294	295	294	296	295	288	242	279	294	286	296	294	292	287	278	278	279	278	279	276	278	288	285
5		296	295	308	304	308	317	317	310	298	290	297	295	293	296	295	283	279	272	259	257	247	257	247	280	287
6		292	297	296	308	338	309	297	264	165	114	112	132	145	158	257	281	276	268	262	257	266	261	276	287	247
7	D	308	310	350	494	389	261	236	-31	-374	-434	-349	-291	79	-134	19	226	298	288	277	274	275	297	308	296	140
8		307	297	305	297	285	285	278	267	257	250	249	246	266	257	258	269	286	275	265	258	268	275	274	277	273
9		277	279	296	284	277	267	276	240	220	177	203	258	277	288	284	268	265	267	267	276	266	273	278	285	264
10		279	280	275	287	290	295	286	283	278	237	98	102	260	278	254	185	267	266	267	266	282	267	275	280	256
11	D	267	278	295	308	287	278	243	228	151	65	113	256	255	247	286	274	256	297	281	277	277	257	266	286	251
12		285	286	288	286	296	296	277	207	205	201	193	245	277	246	248	277	278	279	267	266	265	267	276	285	262
13		287	286	286	288	289	286	275	286	288	286	275	255	245	247	237	278	279	263	258	255	263	265	276	277	272
14		277	277	288	296	297	301	297	288	268	287	288	287	289	288	286	285	267	276	257	256	267	270	277	286	282
15	Q	292	296	296	297	296	296	295	293	290	287	249	286	299	304	299	293	279	270	253	258	267	277	287	296	287
16		295	298	298	298	298	298	297	296	295	293	279	297	308	310	309	310	296	278	275	277	276	278	287	294	293
17		289	287	290	295	298	308	307	297	297	289	281	296	297	308	307	297	299	275	259	260	266	275	286	288	289
18		293	295	296	297	296	288	286	268	287	296	297	295	266	287	288	295	246	290	277	266	268	287	265	316	287
19		408	516	513	495	532	410	359	298	326	266	254	268	268	274	275	277	276	268	261	262	265	271	269	277	329
20	Q	281	285	286	286	267	287	286	286	287	288	289	292	294	294	291	287	292	274	265	264	267	276	277	276	283
21	D	280	284	276	278	286	286	277	256	51	-394	-633	-488	-375	-170	60	141	265	264	247	275	278	285	287	292	109
22	D	278	271	294	327	308	296	285	238	212	211	152	215	206	216	244	236	243	247	238	256	274	277	296	287	254
23	D	294	315	306	294	283	273	255	100	49	-113	-179	-85	214	232	129	101	203	266	268	235	254	289	275	274	189
24		286	297	289	284	276	290	294	294	275	286	288	295	296	295	286	275	253	253	274	275	276	284	277	285	282
25		294	297	298	305	299	294	294	294	285	155	284	294	294	295	294	282	264	260	237	265	276	284	286	295	280
26		291	295	299	296	303	306	305	296	295	293	286	283	294	297	293	277	276	287	285	284	261	277	284	291	290
27		295	298	294	295	295	295	306	295	278	264	286	279	255	257	294	295	297	276	264	283	285	282	276	284	284
28		295	292	296	293	285	294	295	296	295	293	286	282	278	293	285	275	293	277	268	266	274	275	285	293	286
29	Q	296	300	301	299	299	297	296	295	296	297	295	294	299	298	298	295	298	278	273	274	277	283	286	295	292
30	Q	300	301	302	302	302	300	296	297	296	297	300	299	297	298	297	296	293	283	275	274	283	285	286	294	294
MEAN	A	293	299	304	309	306	297	290	264	232	197	191	212	244	247	261	267	274	273	265	266	270	275	279	287	267
MEAN	Q	291	294	296	296	296	295	294	293	292	292	292	292	297	298	295	291	283	274	266	266	272	278	283	289	288
MEAN	D	285	291	304	340	310	279	259	158	18	-133	-179	-79	76	78	147	195	251	273	262	263	271	281	286	287	189

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

DECLINATION

TABLE 32 MEANOOK

D = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES

NOVEMBER 1970

HOUR UT DAY	0		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		MEAN
	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO	TC	TO					
1	Q	37.5	37.4	38.0	38.2	38.0	38.0	38.0	38.0	37.8	38.8	39.0	39.8	40.1	41.1	41.7	43.8	44.8	42.7	39.8	38.3	36.9	36.4	36.7	37.5	39.1																							
2		36.9	37.2	37.8	38.2	38.0	37.8	38.0	38.3	33.2	41.4	43.2	42.8	39.3	43.8	44.9	44.0	44.8	43.2	40.3	39.6	38.5	36.7	36.9	35.1	39.6																							
3		34.9	35.1	35.1	34.9	35.1	36.7	38.5	39.6	41.1	41.2	40.1	39.9	41.2	41.1	41.5	43.3	43.2	39.9	33.7	33.3	33.7	34.8	34.8	36.4	37.9																							
4		36.6	33.5	36.4	38.2	38.3	37.8	38.3	36.9	34.8	43.0	44.8	46.0	43.2	41.2	43.0	45.9	45.7	41.5	39.8	38.0	35.1	35.1	34.6	34.8	39.3																							
5		35.4	35.1	33.3	36.2	36.6	38.3	38.2	39.8	38.3	39.4	39.8	39.6	39.9	41.2	42.8	43.0	43.3	44.3	41.5	38.6	38.0	35.7	34.9	35.4	38.7																							
6		36.8	39.7	36.8	36.2	40.5	41.8	39.5	41.6	35.7	51.3	51.1	49.2	45.0	34.1	38.1	39.7	43.6	41.6	39.5	38.6	37.9	37.6	36.3	36.7	40.4																							
7	D	38.6	65.3	44.5	35.4	36.7	33.3	28.3	27.6	9.0	77.2	70.3	61.0	54.2	65.0	40.7	40.5	42.8	41.0	38.6	41.0	41.5	38.1	38.3	39.9	43.7																							
8		39.9	39.1	41.3	43.3	36.8	38.3	38.1	37.5	38.1	41.3	42.9	41.5	39.9	38.4	39.5	40.2	42.0	42.8	41.2	38.7	38.7	38.4	38.3	38.3	39.8																							
9		38.5	38.4	38.2	38.5	38.5	45.1	41.7	38.2	41.7	40.0	41.4	41.7	42.9	41.4	41.9	40.6	38.5	37.1	36.8	38.2	38.7	38.7	38.7	38.5	39.7																							
10		37.6	38.0	41.4	39.8	38.0	43.4	38.5	38.2	38.2	38.0	60.9	59.1	50.0	45.0	41.3	33.7	32.2	36.1	39.5	37.1	36.9	38.0	38.5	37.1	40.7																							
11	D	37.1	44.5	40.0	41.7	38.7	37.1	42.2	41.7	41.1	36.8	41.6	39.8	41.4	38.4	36.8	41.9	40.1	39.8	39.8	38.8	39.6	38.7	38.2	38.4	39.8																							
12		38.4	38.4	39.8	39.8	44.5	38.2	39.8	32.2	34.7	44.3	41.6	35.3	38.5	40.6	35.5	38.2	41.3	43.2	41.7	40.0	39.6	38.5	38.4	38.4	39.2																							
13		38.2	37.7	38.2	41.3	37.2	40.1	39.8	38.5	37.9	38.5	36.9	36.8	40.0	38.7	35.8	40.6	41.6	38.4	32.4	33.5	35.1	35.1	35.0	36.4	37.7																							
14		36.9	37.2	39.3	38.7	40.0	40.0	38.0	38.2	34.8	36.8	38.2	40.0	40.0	40.3	41.4	42.9	39.0	37.1	36.8	35.5	35.5	36.6	38.2	38.4	38.3																							
15	Q	38.1	38.0	38.3	38.5	38.5	38.5	38.6	38.6	38.9	38.6	40.1	36.7	40.4	42.5	42.6	43.3	43.8	43.3	42.0	38.8	35.2	33.8	33.8	35.6	39.0																							
16		37.0	37.5	38.5	38.6	38.6	38.5	38.5	38.5	38.5	38.5	35.6	38.0	41.7	42.2	43.5	44.9	45.2	41.5	37.2	35.4	35.2	35.2	35.1	33.8	38.6																							
17		35.4	37.0	38.1	38.8	38.8	38.3	37.7	37.5	38.3	38.6	36.5	37.2	37.2	38.6	40.2	41.8	43.0	43.0	40.1	37.5	36.2	36.4	36.4	35.4	38.2																							
18		36.7	38.1	38.1	38.3	38.1	38.5	38.3	34.9	36.5	37.8	38.5	40.1	33.5	41.7	35.7	44.7	44.1	45.1	41.4	38.5	37.5	33.8	35.1	33.6	38.3																							
19		38.3	25.4	25.9	33.0	23.8	35.1	38.5	34.3	31.2	36.9	41.5	39.9	41.4	40.7	41.5	43.3	44.7	43.3	41.5	40.1	38.8	38.6	38.6	38.5	37.3																							
20	Q	38.3	38.5	38.5	38.5	38.5	38.5	38.3	38.3	38.5	38.6	38.8	39.1	39.9	40.1	40.6	43.0	43.1	42.0	41.0	38.6	38.5	38.3	38.5	38.1	39.3																							
21	D	38.1	38.3	40.1	44.6	40.2	38.6	39.4	42.0	43.6	91.6	48.3	17.2	48.3	54.7	32.3	41.8	39.9	40.4	41.0	41.5	42.0	44.4	42.8	41.8	43.0																							
22	D	41.7	43.0	44.9	49.4	39.6	38.6	37.0	36.7	25.6	44.7	39.7	41.2	47.8	38.5	33.0	38.0	32.7	35.6	33.3	33.5	31.7	32.2	35.1	36.7	37.9																							
23	D	38.0	38.7	40.0	41.4	39.8	41.7	41.7	41.6	59.6	63.0	56.1	59.5	44.6	45.6	28.9	29.0	28.4	30.3	36.9	34.8	33.5	36.4	38.4	38.8	41.3																							
24		40.1	40.0	40.0	40.3	40.1	41.3	39.8	38.4	38.5	36.9	38.5	39.8	39.8	40.0	40.3	43.7	40.6	38.4	34.0	32.1	37.1	36.6	38.2	38.4	38.9																							
25		37.2	35.3	36.9	38.0	38.4	39.6	39.3	40.6	40.9	31.8	43.2	42.4	45.0	44.6	41.6	41.1	43.0	40.3	27.1	30.3	32.9	36.9	38.2	36.8	38.4																							
26		38.1	38.1	38.3	38.4	39.9	38.4	36.7	36.7	38.1	38.7	38.4	38.1	40.2	41.2	41.6	43.1	41.3	40.0	37.5	36.8	35.4	35.2	36.3	37.8	38.5																							
27		38.4	38.6	39.5	38.4	38.1	38.6	38.4	37.0	36.3	40.0	42.9	43.1	48.1	37.9	40.8	43.1	43.4	41.2	36.5	35.5	32.9	36.5	36.0	36.2	39.1																							
28		38.3	38.1	38.4	38.7	42.0	42.3	38.6	38.1	37.3	38.3	39.9	38.6	37.3	40.2	41.8	36.8	41.3	41.6	39.9	37.0	36.7	35.8	36.5	36.8	38.8																							
29	Q	38.3	38.1	38.1	38.6	36.3	38.3	38.1	37.1	36.8	38.3	39.5	39.9	41.0	40.4	40.4	41.5	42.9	41.6	39.4	36.7	36.5	36.8	37.0	37.8	38.8																							
30	Q	38.0	38.2	38.2	38.3	38.5	38.2	38.3	38.0	38.2	38.3	38.6	39.6	39.8	40.1	40.1	41.1	42.7	41.5	39.6	36.9	36.4	36.4	36.6	36.6	38.7																							
MEAN A		37.8	38.6	38.4	39.1	38.3	39.0	38.5	37.8	37.1	43.3	42.9	41.4	42.0	42.1	39.7	41.3	41.4	40.6	38.3	37.1	36.7	36.7	37.0	37.1	39.3																							
MEAN Q		38.0	38.0	38.2	38.4	38.3	38.3	38.3	39.0	38.0	38.5	39.2	39.0	40.2	40.8	41.1	42.5	43.5	42.2	40.4	37.8	36.7	36.3	36.5	37.1	39.0																							
MEAN D		38.7	45.9	41.9	42.5	39.0	37.9	37.7	37.9	35.8	62.7	51.2	43.7	47.3	49.2	34.3	38.3	36.8	37.4	37.9	37.9	37.7	38.0	38.5	39.1	41.1																							

VERTICAL INTENSITY

TABLE 33 MEANOOK

Z = 50000 PLUS TABULAR VALUES IN GAMMAS

NOVEMBER 1970

DAY	HOUR UT	VERTICAL INTENSITY																								MEAN
		0 TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 5	5 TO 6	6 TO 7	7 TO 8	8 TO 9	9 TO 10	10 TO 11	11 TO 12	12 TO 13	13 TO 14	14 TO 15	15 TO 16	16 TO 17	17 TO 18	18 TO 19	19 TO 20	20 TO 21	21 TO 22	22 TO 23	23 TO 24	
1	Q	675	674	675	674	674	674	673	674	673	673	672	665	674	674	676	679	630	678	679	680	680	678	675	674	675
2		674	673	674	673	673	673	672	672	575	589	662	662	619	616	661	674	679	675	675	677	677	675	674	674	660
3		674	679	683	692	698	702	699	685	670	663	679	675	671	671	671	665	662	661	660	663	672	681	687	692	677
4		700	710	713	705	693	684	680	673	626	663	674	656	676	681	681	680	630	679	673	672	674	675	678	688	680
5		690	685	691	700	708	733	711	708	644	661	681	674	673	672	671	670	679	682	676	677	678	690	680	693	684
6		697	701	693	718	700	655	707	656	492	512	474	493	531	591	605	652	659	662	670	682	691	689	689	684	639
7	D	693	745	786	747	502	558	678	753	908	943	891	958	699	653	577	628	639	701	708	711	727	718	710	726	726
8		758	719	718	710	701	701	693	679	660	642	644	650	675	672	671	672	632	689	689	697	694	692	692	691	687
9		688	685	687	685	689	698	679	645	603	555	594	650	664	680	676	674	676	681	687	695	697	691	688	687	669
10		689	693	702	698	700	674	689	682	676	605	482	508	584	632	634	622	673	676	688	699	705	699	692	699	658
11	D	697	747	727	726	670	641	625	618	539	490	583	643	644	660	673	679	686	708	690	707	700	709	699	705	665
12		697	690	690	697	680	679	673	567	595	585	596	640	660	638	667	661	638	694	690	690	690	690	691	690	664
13		685	683	684	685	688	681	655	670	681	677	663	636	623	613	614	642	653	660	662	671	683	690	696	692	666
14		701	708	699	692	688	669	670	673	643	663	677	675	679	676	676	679	669	669	673	679	687	689	681	680	679
15	Q	679	678	678	676	676	676	677	677	678	664	663	650	662	671	673	677	630	681	683	684	683	681	680	680	676
16		678	678	677	676	675	673	672	672	671	667	643	652	669	672	673	676	675	671	672	673	678	680	681	680	672
17		680	687	688	697	695	680	672	672	671	662	644	660	663	672	673	675	680	680	682	688	688	684	681	679	677
18		677	677	676	675	676	676	676	651	660	671	670	665	644	612	615	587	646	670	671	672	678	682	690	680	662
19		708	641	737	709	727	717	740	699	717	697	680	691	689	688	689	691	632	691	690	690	690	690	689	686	697
20	Q	681	680	680	679	678	677	677	678	679	679	678	679	676	676	678	680	630	681	681	681	682	681	680	680	679
21	D	680	679	682	706	705	690	670	548	322	39	249	312	596	794	481	626	678	681	697	706	705	702	693	692	597
22	D	694	702	709	716	660	681	691	642	556	624	538	623	622	625	620	627	660	689	716	730	739	734	729	726	669
23	D	719	716	699	709	707	699	688	586	594	447	561	588	697	634	613	579	606	692	707	707	696	709	708	714	657
24		712	709	698	692	690	679	681	676	669	679	675	680	679	679	678	674	660	647	655	671	682	695	691	690	681
25		696	696	708	695	695	688	682	679	681	594	651	661	665	676	676	672	672	671	655	672	679	688	691	694	677
26		689	689	689	687	690	690	683	680	680	678	672	671	675	679	673	674	630	681	679	682	685	690	691	693	682
27		691	690	689	690	691	686	692	681	644	605	643	643	612	634	646	679	630	679	680	683	685	684	688	694	670
28		697	690	687	686	685	699	680	680	679	678	672	660	644	660	654	666	663	672	679	681	684	681	680	680	675
29	Q	678	678	679	679	680	680	680	680	679	679	678	672	671	673	676	679	630	679	679	679	679	678	678	678	678
30	Q	677	675	675	676	676	676	677	676	675	675	676	678	676	676	676	679	630	680	679	680	680	681	680	679	677
MEAN A		692	692	696	695	682	680	681	664	641	622	632	646	654	662	652	661	673	679	681	686	689	690	689	690	672
MEAN Q		678	677	677	677	677	677	677	677	677	674	673	669	672	673	676	679	630	680	680	681	681	680	679	678	677
MEAN D		697	718	721	721	649	654	670	629	584	508	564	625	652	673	593	628	666	694	703	712	713	714	708	713	663

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

HORIZONTAL INTENSITY

TABLE 34 MEANOOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

DECEMBER 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
		TC 1	TO 2	TO 3	TO 4	TO 5	TC 6	TO 7	TO 8	TC 9	TO 10	TO 11	TO 12	TC 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
1	Q	297	304	304	302	305	305	304	302	301	299	302	304	304	304	302	298	293	283	274	271	273	277	288	297	295	
2		305	306	306	306	305	305	304	301	302	304	304	304	305	305	307	306	302	292	282	271	272	282	285	293	298	
3		296	291	293	302	304	300	294	285	276	296	304	305	305	304	305	304	294	285	276	273	272	274	283	292	292	
4		296	302	302	300	301	302	295	286	294	302	305	304	302	305	309	310	305	293	284	277	274	264	274	286	295	
5		286	284	283	283	286	291	288	273	253	262	304	299	306	305	304	278	294	288	273	263	264	273	280	288	284	
6		293	294	291	293	293	294	290	260	211	232	233	293	295	272	257	283	282	295	292	282	274	274	275	284	277	
7		290	292	293	292	292	293	303	291	284	285	283	273	244	261	284	306	310	305	295	283	274	282	282	277	286	
8	D	304	367	333	355	378	308	244	46	189	245	67	161	180	158	282	310	301	289	272	251	252	263	277	284	255	
9		285	283	285	287	291	297	293	284	282	282	243	269	303	292	294	300	298	291	284	281	273	274	281	284	285	
10	Q	292	293	294	295	295	296	295	294	290	291	295	291	282	289	297	296	298	293	285	285	273	270	272	275	283	289
11	Q	291	291	292	292	291	293	295	292	291	292	293	299	300	302	302	303	302	294	285	281	277	281	282	290	292	
12		292	298	293	292	293	292	291	290	289	292	292	286	284	292	303	300	294	289	281	279	280	281	281	292	290	
13		303	302	294	300	303	303	302	298	294	293	294	297	300	300	299	297	290	282	281	280	283	291	291	290	295	
14	D	309	312	327	333	431	404	231-1140	-25	291	242	147	139	262	321	303	274	243	212	244	262	259	252	274	204	204	
15	D	273	292	283	272	270	262	229	126	76	102	140	211	258	210	229	258	273	282	263	259	259	265	271	273	235	
16		283	287	283	286	288	291	283	285	283	282	281	273	283	289	284	285	281	271	259	259	258	263	272	280	279	
17	Q	282	291	291	292	291	290	283	282	280	279	274	271	283	291	284	290	284	280	271	270	262	269	275	283	281	
18		291	291	292	290	290	284	284	283	286	291	290	291	292	291	293	294	292	282	271	263	263	276	284	293	286	
19		294	293	293	291	292	291	285	282	251	232	306	303	303	303	304	305	303	295	282	280	272	280	291	291	288	
20		296	292	288	290	282	279	262	229	158	76	160	261	302	293	302	311	303	295	282	272	272	277	283	291	265	
21		293	292	291	290	290	284	283	274	270	258	284	293	293	304	303	303	298	291	281	278	278	273	280	290	286	
22		290	300	293	291	291	290	282	284	290	283	291	292	297	303	305	306	304	298	285	282	283	287	291	298	292	
23		303	306	303	310	303	302	300	292	291	292	282	283	304	303	303	295	302	292	282	282	283	285	291	296	295	
24	D	305	323	355	395	356	322	302	293	302	294	292	290	289	282	282	293	296	283	272	270	280	273	282	289	301	
25		291	292	293	293	293	292	292	292	292	292	292	293	294	296	292	282	278	277	279	274	268	280	289	293	288	
26		303	303	302	298	297	296	299	291	292	291	291	291	291	291	292	292	290	284	283	274	282	286	286	298	292	
27		303	303	303	293	298	303	303	291	292	292	290	300	291	284	297	296	304	302	285	279	274	260	272	304	292	
28	D	304	310	321	338	315	302	303	289	280	231	243	273	220	260	293	291	244	242	219	231	278	286	290	302	278	
29		303	303	299	293	293	293	293	283	235	282	291	289	284	284	299	299	303	292	282	291	292	294	293	280	290	
30		290	292	326	385	362	292	290	290	283	282	280	292	292	291	293	291	267	264	283	282	284	283	283	292	295	
31	Q	293	294	295	294	294	293	292	292	292	293	296	300	302	303	302	296	290	281	280	281	284	291	294	300	293	
MEAN A		295	300	300	304	306	298	287	227	258	268	269	279	282	285	294	296	292	285	275	272	273	276	282	289	283	
MEAN Q		291	295	295	295	295	296	294	293	291	291	292	293	294	298	297	297	293	286	279	275	273	278	283	291	290	
MEAN D		299	321	324	339	350	320	262	-77	164	233	197	216	217	235	282	291	278	268	248	251	266	269	274	284	255	

DECLINATION

TABLE 35 MEANOOK

0 = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES

DECEMBER 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	Q	36.7	37.8	38.2	38.3	38.5	38.6	38.5	38.3	38.2	38.3	38.6	38.5	39.3	39.6	39.9	41.1	43.0	43.2	41.5	39.6	38.0	36.6	35.6	36.2	38.8
2		36.4	37.7	38.2	39.4	39.6	39.6	39.4	38.5	38.3	38.5	39.4	39.3	39.0	39.4	39.9	41.5	43.0	43.8	40.1	40.7	35.1	34.0	36.2	36.4	38.9
3		36.6	37.8	38.6	39.6	39.6	39.4	39.3	36.2	41.5	41.4	37.5	38.2	39.0	39.6	40.1	41.4	42.8	42.8	41.9	40.1	38.6	38.0	36.2	36.1	39.3
4		36.7	37.8	38.2	38.3	39.3	39.0	38.3	36.4	40.4	39.8	38.2	38.3	39.6	38.3	41.4	42.8	43.0	42.8	40.1	39.8	38.0	34.9	33.3	32.8	38.6
5		33.3	36.6	38.6	40.1	39.9	43.2	42.7	41.5	41.2	44.3	38.5	38.0	38.2	39.9	41.4	35.7	41.7	45.9	43.3	42.2	39.6	38.0	37.0	36.9	39.9
6		36.9	36.8	39.7	38.5	38.7	39.8	38.2	36.3	32.6	39.8	43.1	40.0	39.7	41.0	34.7	33.4	32.9	35.3	36.8	36.6	36.5	35.5	36.5	36.3	37.3
7		36.1	36.9	38.1	38.7	39.7	39.8	40.0	39.5	39.5	37.7	39.5	38.1	33.1	36.6	39.5	41.3	41.6	41.8	37.9	36.3	34.5	33.6	33.7	35.0	37.9
8	D	33.9	39.8	37.7	36.9	41.1	43.1	50.9	41.3	41.0	44.2	44.5	47.9	46.1	37.9	35.8	39.5	42.9	44.7	42.7	38.9	36.3	36.5	38.2	37.6	40.8
9		37.7	37.1	37.9	39.3	39.3	39.7	39.5	39.7	39.7	38.2	35.5	37.3	39.8	40.8	39.5	41.3	42.7	43.2	42.7	41.0	39.7	38.4	37.7	37.6	39.4
10	Q	37.9	37.9	38.1	38.2	38.4	38.2	38.1	38.1	38.2	41.4	41.3	40.8	36.5	38.4	41.1	41.0	40.2	42.2	41.4	39.7	38.2	36.8	37.1	37.7	39.0
11	Q	37.7	37.7	38.1	38.2	38.7	39.7	39.5	38.2	38.2	38.5	38.7	38.4	38.2	39.3	39.5	40.0	41.9	42.9	41.4	40.3	39.7	38.1	37.7	37.3	39.1
12		37.7	38.1	38.4	38.4	38.7	39.3	38.1	39.5	38.7	37.6	41.3	41.3	42.7	45.8	41.6	39.8	41.6	42.7	40.0	38.2	36.5	35.8	36.3	35.2	39.3
13		36.0	35.1	38.1	38.3	39.7	39.4	38.3	38.0	38.3	39.2	39.2	39.4	39.2	39.4	39.4	40.4	42.6	43.1	39.6	39.2	36.7	34.9	35.5	35.9	38.5
14	D	35.1	36.0	35.9	37.8	31.4	57.8	23.5	16.9	13.8	30.2	33.6	56.6	53.9	43.0	44.6	46.5	44.7	45.5	39.6	34.9	33.0	29.9	31.4	38.1	37.2
15	D	39.4	40.9	47.5	39.7	40.1	49.4	48.1	46.0	44.1	49.4	40.5	43.1	39.6	41.2	41.3	39.7	44.6	44.2	39.2	38.1	37.3	37.0	36.2	36.0	41.8
16		36.4	36.7	37.6	39.7	40.9	39.6	39.6	38.4	38.1	38.3	39.1	39.4	39.6	40.9	41.0	42.6	43.9	44.1	41.0	38.1	36.2	35.1	35.5	36.0	39.1
17	Q	35.4	36.8	39.2	40.1	40.9	39.9	39.6	38.9	39.1	39.2	39.4	37.0	38.0	39.2	38.1	42.5	43.6	43.4	42.6	41.0	39.4	38.0	37.0	37.5	39.4
18		38.0	38.1	38.3	39.4	39.4	39.6	38.4	39.4	39.2	38.1	38.0	39.2	38.4	38.3	39.4	41.7	44.2	44.6	43.9	41.5	39.6	37.6	36.2	36.4	39.5
19		37.2	38.0	38.0	38.0	39.4	39.2	42.6	41.0	44.7	51.5	41.0	39.4	39.1	39.4	39.6	40.9	43.4	43.1	42.8	39.7	36.5	36.4	34.7	35.1	40.0
20		38.0	39.4	39.7	39.6	39.7	40.9	43.1	49.7	56.0	60.3	42.8	46.3	39.7	36.2	36.7	42.5	43.0	43.1	42.6	39.6	36.2	36.5	36.8	37.8	41.9
21		37.6	37.6	38.0	39.2	40.9	39.7	39.6	42.8	41.3	41.2	42.6	39.4	36.8	37.8	39.4	40.9	42.6	43.1	41.5	39.9	38.1	36.7	36.0	36.4	39.5
22		36.4	37.3	38.0	39.6	42.5	40.9	36.7	38.3	44.4	38.3	39.4	39.6	38.3	38.1	41.0	41.5	41.2	41.2	40.2	38.1	36.8	36.5	37.6	36.7	39.1
23		37.8	37.6	42.1	39.9	38.0	38.3	39.6	39.2	39.4	39.6	40.9	41.2	41.2	42.6	42.5	43.4	44.1	43.3	41.3	39.6	38.0	37.6	36.5	34.6	39.9
24	D	39.2	38.0	33.1	30.9	36.0	36.5	38.4	40.9	41.3	42.3	39.4	39.4	39.2	39.7	39.4	38.1	43.3	42.8	41.2	39.1	37.2	35.7	36.5	36.5	38.5
25		37.3	38.0	38.8	38.9	39.2	39.4	39.2	39.2	39.2	38.3	39.4	39.6	39.2	39.4	39.6	41.3	42.5	44.4	41.5	38.1	36.0	36.4	35.4	36.5	39.0
26		37.2	37.9	37.9	38.0	38.0	42.4	40.4	39.5	41.2	41.1	40.3	39.6	39.6	39.3	39.6	41.9	44.0	43.5	42.7	39.1	35.9	34.8	35.6	36.3	39.4
27		37.2	36.3	37.2	37.9	39.1	39.1	38.7	37.9	38.0	42.9	43.0	42.7	39.1	41.1	44.0	47.4	45.1	41.9	37.7	36.3	36.3	31.9	28.0	31.4	38.8
28	D	34.3	34.2	31.6	32.9	36.6	39.5	39.5	39.3	39.8	41.6	46.2	42.9	38.0	46.2	49.0	46.2	40.0	40.8	36.4	31.7	32.7	33.0	32.9	32.1	38.2
29		36.3	40.8	41.1	41.1	40.6	42.5	39.0	41.1	37.7	40.9	39.6	40.0	39.6	40.6	40.9	46.1	48.0	46.4	39.8	37.4	36.4	35.1	36.6	33.2	48.0
30		37.9	39.5	40.8	37.7	41.6	39.5	37.9	36.4	36.1	38.3	39.3	39.3	38.3	38.0	40.0	39.5	36.6	39.8	39.1	36.4	36.6	37.9	37.9	38.4	38.4
31	Q	37.9	38.3	39.5	39.6	39.5	39.3	38.3	37.9	37.7	37.9	37.9	39.1	39.3	39.3	39.5	40.9	42.4	42.7	41.4	38.2	36.3	35.9	36.7	37.9	38.9
MEAN A		36.8	37.7	38.4	38.5	39.2	40.7	39.4	38.8	39.3	40.9	39.9	40.6	39.6	39.9	40.2	41.4	42.6	42.9	40.8	38.8	37.0	35.9	35.8	36.0	39.2
MEAN Q		37.1	37.7	38.6	38.9	39.2	39.1	38.8	38.3	38.3	39.1	39.2	38.8	38.2	39.2	39.6	41.1	42.2	42.9	41.7	39.8	38.3	37.1	36.8	37.3	39.1
MEAN D		36.4	37.8	37.2	35.6	37.0	45.2	40.1	36.9	36.0	41.5	40.9	46.0	43.4	41.6	42.0	42.0	43.1	43.6	39.8	36.5	35.3	34.4	35.0	36.1	39.3

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

VERTICAL INTENSITY

TABLE 36 MEANOOK

Z = 58000 PLUS TABULAR VALUES IN GAMMAS

DECEMBER 1970

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TC 13	TO 14	TO 15	TO 16	TO 17	TC 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
1	Q	678	676	675	675	675	676	674	674	674	673	674	676	676	676	676	679	630	682	684	682	681	679	678	679	677	
2		679	678	677	676	676	676	674	673	674	673	674	675	673	674	673	675	672	668	670	673	674	675	679	674	674	
3		681	679	687	680	676	675	673	623	612	643	670	676	674	673	673	676	676	676	677	678	679	679	678	679	671	
4		678	678	676	676	674	674	672	653	650	659	668	670	668	669	671	672	673	672	670	671	671	673	682	691	671	
5		697	695	695	694	702	699	675	651	576	580	640	661	671	670	666	663	630	681	679	680	682	683	682	680	670	
6		679	679	681	679	679	678	670	623	551	556	563	649	666	642	606	631	634	643	653	664	670	671	673	679	647	
7		685	682	680	686	691	690	662	670	669	653	646	650	614	593	623	635	650	651	654	661	669	679	681	687	661	
8	D	709	744	760	773	773	716	613	592	607	621	520	557	555	584	680	688	631	690	686	690	687	688	695	692	667	
9		690	692	691	690	690	672	679	676	668	656	614	626	671	661	673	678	679	679	680	679	679	678	679	678	673	
10	Q	677	676	676	676	676	676	675	673	650	634	654	660	649	634	650	668	672	671	672	675	678	679	677	677	667	
11	Q	676	675	676	676	676	672	669	670	663	661	668	670	671	671	672	673	676	677	678	676	675	674	673	672	672	
12		673	673	673	673	672	674	675	670	653	615	645	655	633	633	649	664	671	672	673	677	678	675	674	677	664	
13		679	680	681	682	680	678	675	674	673	672	670	671	671	672	672	672	673	672	672	672	671	671	673	676	674	
14	D	679	681	691	692	735	643	575	502	746	719	756	773	691	707	681	700	632	690	700	717	716	707	708	716	692	
15	D	703	719	720	700	698	660	625	576	562	564	547	602	671	661	671	660	635	671	667	679	690	698	697	694	658	
16		699	701	701	699	698	697	698	695	689	689	688	681	680	685	664	686	637	688	690	692	689	690	692	692	691	
17	Q	692	694	693	690	689	689	689	686	680	671	664	662	669	680	675	685	637	689	690	690	690	691	691	689	684	
18		686	682	683	683	684	682	672	676	672	674	679	680	680	679	684	683	681	680	682	684	683	680	680	680	680	
19		680	678	678	679	679	680	681	680	575	549	653	681	680	679	680	680	630	679	678	679	678	681	692	692	670	
20		688	682	681	681	682	672	659	615	503	510	534	606	660	671	665	681	631	682	685	689	689	690	690	690	654	
21		689	690	690	691	690	689	679	676	660	635	662	678	673	680	684	685	635	684	682	681	686	689	689	688	681	
22		689	701	697	700	701	699	692	672	648	660	671	676	679	679	678	677	677	676	679	680	680	681	681	681	682	
23		680	688	703	698	693	697	689	688	680	679	662	634	661	665	671	680	632	690	681	681	682	682	681	684	681	
24	D	718	756	775	786	759	725	707	695	702	699	691	682	678	669	680	698	631	682	684	686	688	685	685	687	704	
25		685	681	681	681	681	681	678	680	680	680	680	678	678	680	679	679	630	675	676	676	679	678	686	681	680	
26		681	679	678	678	684	692	688	685	685	689	685	679	678	678	678	680	632	685	680	684	682	680	678	679	682	
27		678	681	681	682	685	680	680	680	676	684	679	678	674	652	661	666	679	666	669	671	671	678	707	709	678	
28	D	708	708	719	775	730	709	710	707	696	650	636	651	579	590	633	642	651	662	679	701	723	706	708	726	683	
29		719	695	690	693	692	718	717	704	665	672	686	680	677	679	691	674	661	668	677	674	678	686	684	700	687	
30		723	709	741	755	773	718	694	690	686	688	682	682	682	681	680	681	681	678	688	682	680	683	688	687	686	697
31	Q	681	681	680	680	679	679	679	678	678	679	679	678	678	679	679	681	634	689	688	684	680	679	678	677	681	
MEAN A		689	691	694	696	696	686	674	661	652	648	653	664	663	663	669	674	676	677	678	681	683	683	685	687	676	
MEAN Q		681	681	680	679	679	678	677	676	669	664	668	670	669	668	670	677	630	682	682	681	681	680	679	679	676	
MEAN D		703	721	733	745	739	691	646	614	663	651	630	653	635	642	669	677	676	679	683	695	701	697	699	703	681	

MEAN VALUES OF MAGNETIC ELEMENTS

HORIZONTAL INTENSITY-ALL DAYS

TABLE 37 MEANCOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

1970

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	265	264	264	300	305	326	332	323	288	297	293	295	296	321	287	279
1-2	267	270	270	296	303	329	333	321	289	304	299	300	298	322	290	284
2-3	269	271	279	288	288	321	334	319	289	306	304	300	297	315	291	286
3-4	272	270	278	297	285	313	334	297	291	310	309	304	297	307	294	289
4-5	272	273	279	286	286	301	313	285	292	300	306	306	292	296	289	289
5-6	269	273	273	279	287	289	283	273	293	289	297	298	284	283	284	284
6-7	265	271	266	247	281	269	233	270	290	266	290	287	269	263	267	278
7-8	255	268	248	235	266	251	223	261	257	249	264	227	250	250	247	253
8-9	256	266	224	209	269	239	217	240	231	233	232	258	240	241	224	253
9-10	257	265	203	191	258	235	216	233	240	245	197	268	234	235	220	247
10-11	255	257	176	187	243	230	209	243	234	247	191	269	228	231	211	243
11-12	250	252	202	196	252	237	214	231	245	233	212	279	234	233	219	248
12-13	255	255	231	194	253	228	236	248	258	238	244	282	243	241	230	259
13-14	258	259	230	186	246	246	229	271	262	258	247	285	248	248	234	262
14-15	261	265	230	234	256	260	249	268	272	268	261	294	260	258	251	270
15-16	262	266	242	236	262	262	260	271	262	261	267	296	262	264	250	273
16-17	256	260	251	239	257	264	272	257	258	249	274	292	261	263	249	271
17-18	249	251	244	238	250	260	271	249	251	249	273	285	256	258	246	265
18-19	248	243	232	241	248	259	263	247	248	246	265	275	251	254	242	258
19-20	247	242	230	248	254	261	264	252	256	248	266	272	253	258	245	257
20-21	249	246	235	258	259	270	270	262	264	264	270	273	260	265	255	260
21-22	252	253	241	273	273	282	283	278	278	278	275	276	270	279	268	264
22-23	258	257	255	278	282	296	292	292	288	285	279	282	279	290	276	269
23-24	262	259	267	293	297	311	314	302	289	293	287	289	289	306	285	274
MEANS	259	261	244	247	269	273	269	270	268	267	267	283	265	270	256	267

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION-ALL DAYS

TABLE 38 MEANOOK

D = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES

1970

U.T.	JAN	FEE	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	39.2	38.3	35.8	34.3	35.1	34.3	35.5	37.3	36.9	35.4	37.8	36.8	36.4	35.6	35.6	38.0
1-2	39.7	38.4	36.1	35.1	36.0	34.8	34.5	38.5	37.3	35.3	38.6	37.7	36.8	36.0	36.0	38.6
2-3	40.5	39.0	37.9	36.7	37.3	36.0	35.1	38.5	37.7	37.0	38.4	38.4	37.7	36.7	37.3	39.1
3-4	41.1	39.7	38.6	37.2	37.9	38.0	35.5	36.8	37.3	36.8	39.1	38.5	38.0	37.1	37.5	39.6
4-5	41.6	40.5	39.1	38.5	38.4	37.7	37.1	36.0	38.8	38.0	38.3	39.2	38.6	37.3	38.6	39.9
5-6	40.8	40.4	40.2	39.2	38.4	37.7	37.6	36.8	38.9	38.9	39.0	40.7	39.1	37.6	39.3	40.2
6-7	41.0	39.8	40.1	39.7	39.2	36.9	39.7	39.7	37.8	38.3	38.5	39.4	39.2	38.9	39.0	39.7
7-8	40.4	40.3	40.7	40.3	38.5	38.0	37.7	38.7	38.8	39.0	37.8	38.8	39.1	38.2	39.7	39.3
8-9	40.9	40.6	40.4	40.9	38.9	37.8	38.6	39.7	38.9	41.5	37.1	39.3	39.5	36.8	40.4	39.5
9-10	41.7	41.1	41.2	40.9	39.0	37.7	39.4	40.6	41.1	41.7	43.3	40.9	40.7	39.2	41.2	41.7
10-11	41.3	42.3	42.6	44.0	40.0	38.8	40.3	40.5	42.3	41.8	42.9	39.9	41.4	39.9	42.7	41.6
11-12	42.5	43.1	44.1	43.1	42.2	42.4	42.1	43.5	42.1	42.4	41.4	40.6	42.5	42.6	42.9	41.9
12-13	42.2	42.3	42.9	44.2	44.1	44.4	43.3	42.9	43.1	43.5	42.0	39.6	42.9	43.7	43.4	41.5
13-14	42.6	42.0	43.1	45.7	48.0	47.9	47.5	45.5	44.7	43.9	42.1	39.9	44.4	47.2	44.3	41.7
14-15	42.4	42.3	43.7	47.1	50.1	49.7	48.7	48.1	45.7	43.1	39.7	40.2	45.1	49.1	44.9	41.2
15-16	43.3	43.2	44.5	47.9	50.5	49.5	50.0	48.2	46.2	43.4	41.3	41.4	45.8	49.6	45.5	42.3
16-17	44.1	43.8	45.7	48.4	48.9	49.0	49.2	47.9	44.9	43.8	41.4	42.6	45.8	48.7	45.7	43.0
17-18	43.1	43.3	47.1	45.8	45.6	46.6	46.6	45.1	42.5	41.7	40.6	42.9	44.2	46.0	44.3	42.5
18-19	41.7	40.9	44.0	41.6	39.6	41.9	42.4	39.9	37.7	39.0	38.3	40.8	40.7	41.0	40.6	40.4
19-20	39.7	38.9	40.0	38.5	35.9	37.8	37.4	35.2	34.3	35.0	37.1	38.8	37.4	36.6	37.0	38.6
20-21	38.4	37.7	37.5	37.2	33.3	34.3	34.7	32.2	32.4	34.6	36.7	37.0	35.5	33.6	35.5	37.4
21-22	38.0	37.6	35.7	35.5	32.4	33.5	33.6	31.9	32.9	34.9	36.7	35.9	34.9	32.8	34.7	37.0
22-23	38.2	37.8	35.3	34.1	32.3	33.3	34.1	32.4	34.1	35.8	37.0	35.8	35.0	33.0	34.8	37.2
23-24	38.7	38.2	35.5	34.1	33.6	33.7	34.5	33.4	35.4	35.7	37.1	36.0	35.5	33.8	35.2	37.5
MEANS	41.0	40.5	40.5	40.4	39.8	39.7	39.8	39.5	39.2	39.2	39.3	39.2	39.8	39.7	39.8	40.0

MEAN VALUES OF MAGNETIC ELEMENTS

VERTICAL INTENSITY-ALL DAYS

TABLE 39 MEANCOCK

Z = 58000 PLUS TABULAR VALUES IN GAMMAS

1970

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	674	671	699	696	703	706	705	707	693	697	692	689	694	705	696	681
1-2	675	672	699	693	698	706	710	705	693	694	692	691	694	705	695	682
2-3	676	672	697	696	689	708	712	703	690	694	696	694	694	703	694	684
3-4	675	671	691	693	688	699	705	692	688	691	695	696	690	696	691	684
4-5	673	672	700	690	688	691	692	689	693	690	682	696	688	690	693	681
5-6	672	672	692	683	681	687	667	672	684	688	680	686	680	677	687	677
6-7	665	669	682	662	672	675	650	676	676	666	681	674	671	669	672	672
7-8	656	664	673	661	658	651	665	669	648	643	664	661	659	661	656	661
8-9	647	658	650	640	653	645	653	656	627	644	641	652	647	652	640	650
9-10	655	657	642	631	640	645	653	648	648	651	622	648	645	646	643	645
10-11	652	644	623	634	629	629	646	665	646	649	632	653	642	642	638	645
11-12	648	636	629	643	640	643	640	652	649	642	646	664	644	644	641	648
12-13	645	643	637	641	662	640	658	654	652	639	654	663	649	653	642	651
13-14	647	644	652	623	657	633	645	663	658	644	662	663	649	649	644	654
14-15	650	650	654	667	655	643	649	670	660	657	652	669	656	654	659	655
15-16	653	659	659	675	660	649	660	668	664	662	661	674	662	659	665	662
16-17	658	662	678	678	668	658	667	668	671	667	673	676	669	665	674	667
17-18	661	662	685	679	671	664	673	673	677	671	679	677	673	670	678	670
18-19	664	664	693	683	672	667	676	677	680	681	681	678	676	673	684	672
19-20	665	669	689	684	676	672	678	679	683	688	686	681	679	676	686	675
20-21	667	670	688	686	680	679	687	684	687	692	689	683	683	682	688	677
21-22	668	673	690	692	688	690	696	690	693	696	690	683	687	691	693	679
22-23	670	672	697	699	693	698	709	696	695	693	689	685	691	699	696	679
23-24	672	673	702	696	700	703	713	701	692	694	690	687	694	704	696	681
MEANS	662	662	675	672	672	670	675	677	673	672	672	676	672	674	673	668

RECORD OF OBSERVATIONS AT MEANCOCK MAGNETIC OBSERVATORY 1970

MEAN VALUES OF MAGNETIC ELEMENTS

HORIZONTAL INTENSITY-QUIET DAYS

TABLE 40 MEANCOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

1970

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	265	264	261	275	282	298	291	300	281	282	291	291	282	293	275	278
1-2	265	268	266	278	283	299	287	299	286	286	294	295	284	292	279	280
2-3	267	270	269	278	283	298	294	295	286	288	296	295	285	293	280	282
3-4	267	272	271	276	281	295	291	289	291	288	296	295	284	289	282	283
4-5	267	273	273	279	281	291	291	291	292	288	296	295	285	288	283	283
5-6	265	272	272	280	282	288	289	289	291	288	295	296	284	287	283	282
6-7	267	269	273	281	282	287	288	290	288	288	294	294	284	287	283	281
7-8	266	269	274	281	282	285	288	292	272	289	293	293	282	287	279	280
8-9	264	269	274	281	287	281	287	292	272	289	292	291	282	287	279	279
9-10	263	270	275	285	287	283	283	290	294	289	292	291	283	286	286	279
10-11	264	271	273	284	287	282	277	287	292	291	292	292	283	283	285	280
11-12	264	272	275	277	288	288	283	291	291	291	292	293	284	288	283	280
12-13	266	273	278	274	289	292	293	296	291	291	297	294	286	292	283	282
13-14	266	272	280	279	289	292	299	296	289	291	298	298	287	294	285	283
14-15	263	269	279	278	286	288	291	294	283	290	295	297	284	290	282	281
15-16	264	264	274	271	275	280	293	289	274	283	291	297	280	284	276	279
16-17	258	256	266	256	260	273	282	275	264	269	283	293	270	272	264	273
17-18	251	247	254	243	249	260	268	265	258	256	274	286	259	260	253	265
18-19	250	239	241	241	240	258	260	257	251	251	266	279	253	254	246	258
19-20	252	241	238	244	246	258	257	257	257	258	266	275	254	254	249	258
20-21	255	246	239	250	250	259	257	265	265	269	272	273	258	258	256	262
21-22	258	251	241	254	263	263	259	268	277	275	278	278	264	263	262	266
22-23	261	257	245	262	274	275	277	277	287	281	283	283	272	276	269	271
23-24	263	262	255	273	280	283	290	291	286	282	289	291	279	286	274	276
MEANS	262	263	264	270	275	281	282	285	280	281	288	290	277	281	274	276

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION-QUIET DAYS

TABLE 41 MEANOOK

D = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES

1970

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	39.7	38.6	35.8	34.5	35.4	34.1	35.0	35.2	36.6	36.4	38.0	37.1	36.4	34.9	35.8	38.4
1-2	40.2	38.5	36.6	35.8	36.3	35.2	36.0	36.4	36.4	36.9	38.0	37.7	37.0	36.0	36.4	38.6
2-3	40.9	38.8	37.2	35.7	37.4	37.2	37.1	37.0	36.6	37.2	38.2	38.6	37.7	37.2	36.7	39.1
3-4	40.9	39.5	38.1	36.3	38.3	37.3	38.3	37.5	36.8	37.4	38.4	38.9	38.1	37.9	37.1	39.4
4-5	41.0	39.8	38.8	35.3	39.0	37.4	37.9	36.9	38.9	37.5	38.3	39.2	38.3	37.8	37.6	39.6
5-6	40.9	39.7	39.1	37.5	38.9	37.5	38.8	36.8	39.4	37.1	38.3	39.1	38.6	38.0	38.3	39.5
6-7	40.3	39.6	39.2	37.4	38.9	36.8	38.1	36.7	37.4	37.3	38.3	38.8	38.2	37.6	37.8	39.2
7-8	39.9	39.6	40.1	38.0	38.4	37.2	37.4	37.5	36.7	37.6	38.0	38.3	38.2	37.6	38.1	38.9
8-9	39.5	39.2	40.7	38.2	39.2	37.2	38.3	37.6	37.7	38.0	38.0	38.3	38.5	38.1	38.7	38.8
9-10	39.9	40.3	40.5	39.5	39.0	37.2	38.0	38.2	39.5	38.5	38.5	39.1	39.0	38.1	39.5	39.4
10-11	40.7	40.4	40.5	39.9	38.7	38.5	38.2	37.7	39.5	39.3	39.2	39.2	39.3	38.3	39.8	39.9
11-12	40.8	40.9	39.7	40.4	40.1	41.4	40.0	39.5	40.1	39.8	39.0	38.8	40.1	40.3	40.0	39.9
12-13	41.1	41.1	41.1	41.7	42.9	44.0	42.6	41.9	41.5	39.7	40.2	38.2	41.3	42.9	41.0	40.2
13-14	41.9	41.5	42.1	44.2	45.8	46.7	45.1	44.3	43.4	40.5	40.8	39.2	43.0	45.5	42.6	40.8
14-15	41.9	42.0	44.1	46.8	48.0	48.6	46.8	46.4	45.2	42.3	41.1	39.6	44.4	47.5	44.6	41.1
15-16	43.0	43.5	45.6	48.2	49.0	49.5	48.3	47.6	46.3	44.4	42.5	41.1	45.8	48.6	46.1	42.5
16-17	43.5	44.1	46.2	49.0	49.3	49.3	48.0	47.3	45.5	45.3	43.5	42.2	46.1	48.5	46.5	43.3
17-18	43.1	43.6	46.5	46.8	45.6	47.8	46.4	45.2	43.1	43.4	42.2	42.9	44.7	46.3	45.0	43.0
18-19	41.9	41.0	43.8	40.4	41.1	42.4	41.8	40.6	38.6	39.7	40.4	41.7	41.1	41.5	40.6	41.2
19-20	40.4	38.2	40.6	36.7	36.2	37.4	38.0	35.5	34.4	35.9	37.8	39.8	37.6	36.8	36.9	39.0
20-21	38.5	36.9	37.5	34.2	33.2	33.8	34.8	32.7	33.1	34.3	36.7	38.3	35.3	33.6	34.8	37.6
21-22	38.7	36.7	35.5	32.4	32.6	32.5	32.5	31.5	32.6	34.8	36.3	37.1	34.4	32.2	33.8	37.2
22-23	39.0	37.4	35.0	31.7	32.4	32.2	32.9	32.1	34.1	35.5	36.5	36.8	34.6	32.4	34.1	37.4
23-24	39.3	38.1	35.5	31.5	32.8	33.4	33.4	34.0	35.1	36.0	37.1	37.3	35.3	33.4	34.5	38.0
MEANS	40.7	39.9	40.0	38.8	39.5	39.3	39.3	38.6	38.7	38.5	39.0	39.1	39.3	39.2	39.0	39.7

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

MEAN VALUES OF MAGNETIC ELEMENTS

VERTICAL INTENSITY-QUIET DAYS

TABLE 42 MEANCOK

Z = 58000 PLUS TABULAR VALUES IN GAMMAS

1970

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	665	667	681	680	681	686	695	691	677	682	678	681	680	688	680	673
1-2	665	666	680	681	677	689	686	686	677	680	677	681	679	684	680	672
2-3	666	665	681	680	675	690	683	687	677	679	677	680	678	684	679	672
3-4	665	665	681	680	674	684	684	684	677	678	677	679	677	682	679	672
4-5	666	664	679	681	675	682	685	682	679	675	677	679	677	681	679	672
5-6	666	665	677	680	674	679	671	681	676	677	677	678	675	676	677	672
6-7	666	663	676	675	672	675	674	680	680	677	677	677	674	675	677	671
7-8	665	663	674	671	668	672	675	679	664	672	677	676	671	673	670	670
8-9	663	659	675	665	668	664	669	675	659	667	677	669	667	669	667	667
9-10	663	660	674	663	667	664	650	671	678	672	674	664	667	663	672	665
10-11	661	662	671	669	670	659	646	670	678	672	673	668	666	661	672	666
11-12	662	663	670	668	672	671	658	678	676	672	669	670	669	670	671	666
12-13	660	663	671	663	673	670	674	681	677	671	672	669	670	675	671	666
13-14	661	664	673	664	674	668	681	679	677	673	673	668	671	676	672	666
14-15	658	663	675	669	673	666	682	677	676	675	676	670	672	674	674	667
15-16	658	664	676	671	672	663	680	676	677	676	679	677	672	672	675	670
16-17	659	664	677	673	671	661	673	677	677	676	680	680	672	670	676	671
17-18	662	663	677	673	666	658	671	674	676	675	680	682	671	667	675	672
18-19	663	661	683	669	662	657	668	669	673	672	680	682	670	664	674	672
19-20	664	664	670	668	660	659	667	666	676	671	681	681	669	663	671	673
20-21	664	667	672	670	661	661	669	671	678	675	681	681	671	666	674	673
21-22	664	668	673	674	666	664	672	677	682	677	680	680	673	670	677	673
22-23	664	667	675	677	674	671	684	681	684	677	679	679	676	678	678	672
23-24	664	668	676	681	679	677	696	683	681	677	678	679	678	684	678	672
MEANS	663	664	676	673	671	670	675	678	676	675	677	676	673	674	675	670

MEAN VALUES OF MAGNETIC ELEMENTS

HORIZONTAL INTENSITY-DISTURBED DAYS

TABLE 43 MEANCOK

H = 13000 PLUS TABULAR VALUES IN GAMMAS

1970

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	280	268	283	368	364	393	278	428	287	351	285	299	324	366	322	283
1-2	276	280	296	354	361	399	346	430	298	362	291	321	335	384	328	292
2-3	287	280	338	303	304	362	399	420	295	358	304	324	331	371	324	299
3-4	294	268	321	320	297	382	449	317	297	359	340	339	332	361	324	310
4-5	290	271	311	250	305	336	359	236	305	307	310	350	303	309	293	305
5-6	280	274	268	257	289	284	248	199	313	265	279	320	273	255	276	288
6-7	259	273	228	204	276	246	81	180	305	221	259	262	233	196	240	263
7-8	215	270	162	165	199	153	27	132	167	177	158	-77	146	128	168	141
8-9	226	268	111	105	243	106	134	47	91	159	18	164	139	132	116	169
9-10	233	254	74	12	229	62	58	22	145	143	-133	233	111	93	94	147
10-11	216	226	-75	15	147	49	9	41	96	136	-179	197	73	62	43	115
11-12	180	196	17	85	144	75	-11	-34	109	40	-79	216	78	44	63	128
12-13	197	205	114	70	132	19	53	88	163	81	76	217	118	73	107	174
13-14	226	245	78	-28	90	79	-2	209	153	152	78	235	126	94	89	196
14-15	236	268	62	86	156	158	80	197	222	203	147	282	175	148	143	233
15-16	240	272	151	111	209	208	133	254	209	181	195	291	205	201	163	250
16-17	240	250	200	156	247	247	235	224	238	155	251	278	227	238	187	255
17-18	240	250	208	197	252	264	290	226	246	196	273	268	242	258	212	257
18-19	243	240	203	231	258	272	276	251	249	206	262	248	245	264	222	248
19-20	236	239	207	266	267	282	279	267	254	225	263	251	253	274	238	247
20-21	238	244	232	305	268	295	281	269	262	276	271	266	267	278	269	255
21-22	244	254	246	353	296	325	321	287	288	301	281	269	289	307	297	262
22-23	258	257	283	328	307	343	299	303	304	314	286	274	296	313	307	269
23-24	264	260	313	339	348	362	291	331	309	321	287	284	309	333	321	274
MEANS	246	255	193	202	249	238	205	222	234	229	189	255	226	228	214	236

RECORD OF OBSERVATIONS AT MEANCOK MAGNETIC OBSERVATORY 1970

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION-DISTURBED DAYS

TABLE 44 MEANCOK

D = 23.0 DEGREES EAST PLUS TABULAR VALUES IN MINUTES

1970

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	37.1	36.4	34.6	34.8	35.4	32.8	36.7	44.0	36.6	34.9	38.7	36.4	36.5	37.2	35.2	37.1
1-2	38.5	37.7	34.1	35.0	34.8	33.7	32.3	46.4	37.7	33.8	45.9	37.8	37.3	36.8	35.1	40.0
2-3	39.6	38.3	39.9	39.2	36.9	33.5	28.8	43.9	37.8	38.7	41.9	37.2	38.0	35.8	38.9	39.2
3-4	40.6	39.6	40.4	38.4	36.7	38.5	28.4	32.4	37.3	36.3	42.5	35.6	37.2	34.0	38.1	39.6
4-5	46.3	40.7	38.1	39.1	38.1	35.5	32.5	27.8	37.4	39.3	39.0	37.0	37.6	33.5	38.5	40.7
5-6	42.3	40.8	40.8	42.1	39.5	34.9	29.1	30.9	39.6	41.0	37.9	45.2	38.7	33.6	40.9	41.6
6-7	42.5	40.1	37.7	44.2	40.7	36.1	43.8	48.5	37.2	45.2	37.7	40.1	41.2	42.3	41.1	40.1
7-8	40.4	40.5	40.4	39.2	38.9	36.6	34.4	41.4	45.9	43.5	37.9	36.9	39.7	37.8	42.2	38.9
8-9	42.1	42.8	42.8	40.2	38.0	37.7	38.2	45.4	43.6	48.9	35.8	36.0	41.0	39.8	43.9	39.2
9-10	45.0	41.7	47.0	38.6	37.2	37.2	45.6	48.5	41.9	46.9	62.7	41.5	44.5	42.1	43.6	47.7
10-11	42.5	45.5	47.9	50.0	43.9	39.8	49.3	51.3	46.3	42.6	51.2	40.9	45.9	46.1	46.7	45.0
11-12	45.8	48.1	52.6	49.6	49.1	51.8	51.0	64.7	47.3	46.7	43.7	46.0	49.7	54.2	49.0	45.9
12-13	45.8	44.5	44.7	52.3	49.4	49.0	48.7	48.4	48.0	50.2	47.3	43.4	47.6	48.9	48.8	45.2
13-14	44.0	40.9	44.3	48.0	54.2	52.3	56.7	46.9	51.2	48.4	49.2	41.6	48.1	52.5	48.0	43.9
14-15	44.1	42.8	47.3	43.2	52.6	52.0	49.1	50.6	47.9	40.1	34.3	42.0	45.5	51.1	44.6	40.8
15-16	42.0	42.8	37.8	46.1	52.4	48.0	54.0	49.0	45.8	39.2	38.3	42.0	44.8	50.9	42.2	41.3
16-17	42.6	41.2	38.6	50.1	47.2	48.0	52.0	49.1	41.8	42.8	36.8	43.1	44.4	49.1	43.3	40.9
17-18	41.0	41.3	46.9	46.1	45.3	47.3	45.8	47.6	39.7	40.6	37.4	43.6	43.5	46.5	43.3	40.8
18-19	40.9	39.8	40.6	40.8	38.0	41.4	43.7	38.7	34.6	37.3	37.9	39.8	39.5	40.4	38.3	39.6
19-20	38.8	38.8	35.3	39.3	36.7	39.6	36.7	36.1	32.7	28.9	37.9	36.5	36.5	37.3	34.1	38.0
20-21	38.4	37.4	37.1	43.9	33.7	38.8	34.9	33.0	30.6	34.9	37.7	35.3	36.3	35.1	36.6	37.2
21-22	37.1	37.6	35.4	42.3	33.1	38.8	36.2	34.1	31.6	35.9	38.0	34.4	36.2	35.6	36.3	36.8
22-23	36.9	37.9	35.6	37.5	32.9	37.3	38.7	34.8	33.1	37.1	38.5	35.0	36.3	35.9	35.8	37.1
23-24	38.5	38.1	36.6	37.1	33.9	36.4	39.1	35.8	34.3	35.6	39.1	36.1	36.7	36.3	35.9	37.9
MEANS	41.4	40.6	40.7	42.4	40.8	40.7	41.1	42.9	40.0	40.4	41.1	39.3	40.9	41.4	40.9	40.6

MEAN VALUES OF MAGNETIC ELEMENTS

VERTICAL INTENSITY-DISTURBED DAYS

TABLE 45 MEANOOK

Z = 58000 PLUS TABULAR VALUES IN GAMMAS

1970

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	692	673	722	692	723	731	730	750	701	698	697	703	709	734	703	691
1-2	698	681	739	670	723	719	745	743	704	685	718	721	712	733	700	704
2-3	705	683	718	672	699	730	728	740	699	668	721	733	708	724	689	710
3-4	707	679	698	644	699	723	718	669	680	663	721	745	696	702	671	713
4-5	691	683	734	646	701	707	646	671	700	683	649	739	687	681	691	690
5-6	689	685	704	661	684	712	623	642	675	679	654	691	675	665	680	679
6-7	660	680	679	636	662	692	667	678	667	655	670	646	666	675	659	664
7-8	625	673	708	666	648	646	721	640	575	585	629	614	644	664	633	635
8-9	595	663	643	636	672	653	695	633	576	591	584	663	633	663	611	626
9-10	637	657	674	624	651	636	699	646	644	613	508	651	637	658	639	613
10-11	621	620	608	643	578	559	629	691	639	605	564	630	616	614	624	609
11-12	603	570	594	632	615	579	589	582	584	564	625	653	599	591	593	613
12-13	584	600	592	665	682	598	656	599	612	573	652	635	621	634	610	618
13-14	602	618	630	560	637	540	587	634	586	572	673	642	607	599	587	634
14-15	613	642	608	713	621	569	569	671	587	615	593	669	623	608	631	629
15-16	617	654	619	719	618	594	609	674	623	634	628	677	639	624	649	644
16-17	641	648	686	697	652	641	649	658	650	662	666	676	661	650	674	658
17-18	652	654	700	690	674	668	676	678	674	685	694	679	677	674	688	670
18-19	664	664	737	708	677	680	691	699	687	701	703	683	691	687	708	679
19-20	672	670	725	713	689	695	700	698	696	719	712	695	699	695	713	687
20-21	682	673	705	701	701	715	716	695	700	723	713	701	702	707	707	692
21-22	682	680	696	703	725	739	741	704	714	728	714	697	710	727	710	693
22-23	686	679	721	711	731	746	758	714	718	705	708	699	715	737	714	693
23-24	696	685	747	667	743	736	725	734	714	704	713	703	714	735	708	699
MEANS	655	659	683	670	675	667	678	677	659	655	663	681	668	674	666	664

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

THREE-HOUR RANGE INDICES, MEAN00K, 1970

Table 46

January			February			
	D	H	K	D	H	K
1	0110 2312	1211 2322	1212 2322	1300 0112	1211 0212	1311 0212
2	1453 4323	1466 6433	1466 6433	2324 4222	1225 5223	2335 5223
3	1332 2101	2232 2212	2343 2212	2101 1100	2112 2112	2113 2112
4	0001 0011	0022 1111	0022 1111	0012 3221	1124 4322	1124 4322
5	0102 1120	0012 2112	0112 2122	1300 2222	2311 3212	2311 3222
6	1001 1110	2111 1111	2111 1111	0120 0000	1131 0111	1131 0111
7	0100 0122	1111 1221	1111 1222	0000 0010	1000 1221	1000 1221
8	0112 1210	1102 1211	1112 1211	0000 0100	0000 1211	0000 1211
9	2232 1210	2232 1111	2232 1211	0020 0110	0110 1211	0120 1211
10	2100 1110	2111 1211	2111 1211	0020 1220	0110 1212	0120 1222
11	0110 1011	1111 1211	1111 1211	0010 0110	1011 0112	1021 0112
12	1121 0111	2211 1222	2221 1222	0000 0111	1000 1111	1000 1111
13	0010 1101	1111 2111	1111 2111	0110 2120	1111 2211	1111 2221
14	0211 1210	1221 1212	1221 1212	0213 3210	1214 2211	1224 3221
15	1110 0111	2111 2221	2111 2221	0233 1111	1134 1221	1234 1221
16	2234 4412	2135 4323	2235 4433	0021 1100	1012 2111	1022 2111
17	2421 0111	3431 1111	3431 1111	0002 1232	1002 1332	1002 1332
18	0221 0110	1333 1211	1333 1211	1222 1221	2332 3221	2332 3221
19	0001 1211	1111 2212	1111 2212	0011 1111	1121 1212	1121 1212
20	1002 2121	2111 3222	2112 3222	0000 0110	1001 1111	1001 1111
21	0031 2100	1222 2222	1232 2222	0010 0010	1111 1211	1111 1211
22	0000 0111	2111 1211	2111 1211	0000 0121	1101 1111	1101 1121
23	0121 1111	1121 1211	1121 2211	0000 0010	1100 1221	1100 1221
24	0023 1111	1134 2111	1134 2111	0020 1331	1120 2421	1120 2431
25	0000 0110	1110 0111	1110 0111	0010 0110	0111 0111	0111 0111
26	0110 0111	1111 0211	1111 0211	0132 4210	1133 5411	1143 5411
27	0011 1221	1211 1232	1221 1232	0122 0221	0132 2222	0133 2222
28	1000 1101	2000 1201	2001 1211	3233 2221	3224 3323	3234 3323
29	1300 0310	2511 0111	2511 1311			
30	0142 1332	2243 1222	2243 1332			
31	2100 0110	2101 1221	2111 1221			
March			April			
	D	H	K	D	H	K
1	1345 4421	3367 5523	3367 5523	1110 2022	3211 1213	3211 2223
2	2335 2121	3346 3212	3356 3222	0111 1221	2221 3212	2222 3222
3	0022 1322	2154 3322	2154 3323	1352 2121	2474 3222	2474 3222
4	1134 4321	2145 5332	2245 5433	1032 3221	2152 3212	2153 3222
5	1021 1132	2132 2243	2132 2243	0013 2222	1134 3322	1134 3322
6	3143 1222	3254 2335	4264 2335	2345 3231	2467 4323	2567 4333
7	4345 3443	5456 5545	5456 5545	1333 2220	2254 2223	2354 2223
8	2356 7865	3578 8887	3578 8887	2213 2121	3224 2222	3234 2222
9	3443 3421	5545 6533	5545 6533	1234 4221	2256 7313	2266 7323
10	1011 1120	2232 1312	2233 2322	0000 2122	1000 1222	1000 2222
11	0000 0120	1000 2322	1000 2322	3234 2110	2334 2211	3335 3211
12	1033 2120	1135 1211	1135 3221	0130 1120	2231 2211	2242 2221
13	0023 2222	1125 3222	1135 3222	1011 2220	1111 2211	1111 2221
14	0000 1110	1111 0212	1111 1212	0001 2120	1001 1211	1001 2221
15	1122 0220	0122 2211	1133 2221	0021 1121	1021 1323	1032 1323
16	0001 1110	0011 1311	0011 1311	2340 1222	3441 2224	3451 2234
17	0000 2111	1111 1222	1111 2222	5435 2232	5566 4334	5566 4334
18	0003 2221	2113 2212	2123 2222	1105 5322	2126 6333	2126 6333
19	1020 2121	2111 1222	2121 2222	2466 3311	4667 5322	4677 5322
20	0000 2110	1111 2221	1121 2221	0313 5322	2323 6423	2323 6423
21	1100 0010	1111 1211	1111 1211	2367 7655	3476 8776	3477 8776
22	0021 2020	1112 1211	1122 2221	4645 2221	6766 2222	6766 2222
23	0022 1120	1012 1112	1022 1122	2233 3231	3224 5233	3234 5333
24	0000 1020	1011 0212	1011 1222	2332 3321	4443 4423	4443 4423
25	0000 1120	1011 1222	1111 1222	2323 2231	3354 4223	3354 4233
26	1100 1120	1111 1112	1111 1122	2111 2122	4211 3224	4211 3224
27	0013 2222	1025 3223	1025 3223	2331 2121	4443 2212	4443 2222
28	2436 3221	3577 4323	3577 4423	2131 2120	2131 1222	2131 2222
29	1440 2232	3553 4323	3553 4333	1121 2221	1122 2212	1133 2222
30	2154 4231	3355 4322	3355 5332	2353 2321	3465 3223	3465 3323
31	0256 5532	2377 7634	2377 7634			

RECORD OF OBSERVATIONS AT MEANOOK MAGNETIC OBSERVATORY 1970

THREE-HOUR RANGE INDICES, MEANOOK, 1970

Table 46

May				June		
	D	H	K	D	H	K
1	1241 2232	2351 3223	2351 3233	2424 3321	3556 5432	3556 5432
2	2232 2231	3232 2222	3242 2232	2211 2221	4321 2223	4321 2223
3	1111 3332	2112 3333	2113 3333	1332 2231	3254 4233	3354 4233
4	1022 2221	2122 1223	2133 2223	3122 1121	3232 3222	3232 3322
5	1114 3221	2225 3223	2225 4223	1223 1221	3233 1212	3233 1222
6	1011 2221	2111 1222	2111 2222	1112 1121	2112 0211	2123 1221
7	2102 2221	3212 2322	3212 2322	0111 1223	0111 1235	0112 1235
8	1001 2221	2011 1322	2011 2322	3352 3221	4572 3213	4572 3223
9	1111 2220	2110 1212	2121 2222	2012 2221	2110 1122	2112 2222
10	1111 2120	1110 1212	1111 2222	1022 2221	2222 2113	2222 2223
11	0111 2121	1010 0223	1111 2223	2011 2121	2111 1212	2111 2222
12	2213 3232	4214 2333	4314 3333	1112 2131	2112 1212	2133 2232
13	2201 2121	3311 2212	3321 2222	1023 4220	1144 5222	1144 5222
14	1331 2232	2353 2334	2453 2334	2211 2231	3301 1324	3311 2334
15	3133 2221	4234 2222	4245 2222	2233 4221	3355 5334	3365 5334
16	1132 2221	2131 2223	2133 2223	2322 2221	3421 2222	3422 2222
17	1311 3221	3533 3222	3533 3222	1012 3232	2122 3333	2122 3333
18	1112 2120	2221 1111	2222 2121	3147 6322	3257 6534	3257 7534
19	1133 2221	1225 2322	1235 2322	2232 1121	3332 2223	3333 2223
20	1323 3211	3424 3123	3434 4223	2555 3312	4566 3444	4566 3444
21	2112 2232	3213 2223	3213 2233	4333 3212	5555 3322	5555 3322
22	1111 3221	3213 2222	3223 3222	1002 1221	2102 1212	2102 1222
23	1022 2131	2222 2223	2232 2233	2121 1121	2211 1212	2221 1222
24	2012 3221	2212 2212	2213 3222	1001 2221	2111 1323	2111 2323
25	2231 2211	3232 2222	3232 2322	2211 2120	3212 2212	3212 2212
26	0011 1121	1001 1212	1011 1222	1242 2232	2344 3333	2354 3333
27	1221 2222	2133 3224	2233 3234	2364 5321	3376 7332	3376 7332
28	4216 7432	6337 7635	6337 7635	2323 2121	3215 3222	3325 3222
29	2353 2222	5465 2233	5465 2233	1221 2222	1221 2332	1221 2332
30	1334 2311	3346 2322	3356 2322	1031 2220	1132 2212	1153 2222
31	1122 2221	1222 3322	1233 3322			
July				August		
	D	H	K	D	H	K
1	1332 3221	2243 3322	2343 4322	1112 2221	3212 1223	3213 2223
2	1253 2221	2276 4223	2276 4223	2112 2121	2212 1212	2212 2222
3	1335 2223	2467 2326	2467 2326	0111 2121	1102 2212	1112 2222
4	4443 2120	7564 1121	7575 2121	0011 1131	1111 1212	1111 1232
5	1531 2221	3553 3324	3553 3324	1111 1121	2211 1212	2211 1222
6	2343 3120	3565 4111	3565 4121	1012 1221	1112 1332	1113 1332
7	1011 1121	1111 1223	1121 1223	2111 2232	3111 2233	3111 2233
8	1211 1123	1321 3125	1321 3125	2257 4232	3476 7243	3477 7243
9	3646 7633	4866 7747	4867 8747	4333 3221	5555 3222	6555 3222
10	4111 3442	7222 3543	7222 3543	0132 2221	3234 4222	3234 4222
11	2131 3221	3223 3223	3233 3223	1322 2231	3234 3213	3344 3233
12	3222 2231	4354 3223	4354 3233	2422 2032	3522 2222	3533 2232
13	3322 2221	3222 1223	3322 2223	1122 2232	2222 2332	2222 2332
14	2232 1131	2332 1222	2343 1232	1121 1221	2211 1332	2221 1332
15	1113 1121	2212 2212	2223 2222	1121 1131	2211 1333	2221 1333
16	1011 2220	3101 3212	3111 3222	1221 2224	3222 2325	3322 2325
17	1001 1221	2101 2222	2101 2223	4666 4433	5877 6544	5877 6544
18	1202 2120	2202 1112	2302 2122	4655 5322	6766 6544	6766 6544
19	1102 2221	2102 1213	2103 2223	3333 2221	5325 3222	5435 3222
20	2111 1131	1101 0224	2111 1234	0022 2121	1132 2212	1132 2222
21	2324 4332	3526 6443	3526 6443	1012 2121	1112 1211	1112 2221
22	1233 2222	3244 1325	3255 2325	1112 3221	1113 5122	1113 5222
23	2231 2121	5232 2222	5242 2222	0232 2221	2443 2222	2543 2222
24	3452 3333	5562 3325	5562 4335	1101 2022	1111 1221	1111 2222
25	5685 5224	7887 6446	7887 6446	1222 2222	1223 3323	1233 4323
26	5454 3222	6666 5223	6666 5223	1346 5321	2465 5323	2466 5323
27	1333 2222	2534 3323	2544 3323	2322 2212	3433 4413	3433 4423
28	1011 2221	2111 2223	2111 2223	0121 2222	2232 3233	2232 3333
29	2576 8431	3786 7732	3787 8732	2333 3221	3334 2222	3334 3222
30	1322 2222	2312 2223	2322 2223	1321 2221	2221 1221	2321 2221
31	2433 2222	3545 2234	3545 2234	0234 3332	1255 3332	1255 3332

THREE-HOUR RANGE INDICES, MEANOOK, 1970

Table 46

September			October		
D	H	K	D	H	K
1	0055 3332	1167 4233	1321 2231	2111 1233	2321 2233
2	2114 2332	3227 3332	2002 2231	2112 2323	3113 2333
3	0334 4321	1445 5423	1312 2322	2211 2223	2312 2323
4	1142 3321	2243 3223	4343 2321	3655 4332	4655 4332
5	1211 2222	2211 2322	2232 2221	2243 1222	2343 2222
6	1100 1232	1211 2232	1121 2121	1122 1122	1122 2122
7	1011 2222	2012 3322	0021 1120	1121 1222	1121 1222
8	0032 2131	1133 3222	0010 1121	1000 0221	1010 1221
9	0121 2221	1111 1211	0010 1121	1010 0221	1010 1221
10	2311 1210	2311 1221	0151 1221	1061 1222	1161 1222
11	0000 1121	1100 1222	1100 1222	3254 3222	3365 4232
12	1332 1211	2252 1221	2352 1221	3453 1110	5555 2211
13	0346 5322	2316 6324	2356 6334	0331 3211	1241 4221
14	3124 4322	3236 4423	3246 5423	0231 1221	2232 1221
15	3322 2211	3332 2322	3333 2322	1111 1110	1111 1221
16	1332 2121	2242 2222	2342 2222	0006 4442	1118 6555
17	0341 2221	1342 1221	1442 2221	1244 5434	2255 5554
18	0241 1121	2242 1222	2252 1222	5553 2221	5664 3322
19	0333 2232	1455 3323	1555 3333	0242 1110	2373 2222
20	1444 2222	2345 3223	2445 3323	0243 1110	1345 3111
21	3342 3221	3365 4333	3365 4333	0000 1110	0000 0221
22	3423 2211	2333 2322	3434 2322	1232 4323	2345 4225
23	1033 1221	2135 2221	2135 2221	3435 3332	3656 4543
24	1221 1120	1222 1221	1222 1221	2453 2110	3564 3222
25	0343 1121	1353 1221	1364 1221	1231 2120	1231 3321
26	0221 1221	1222 1221	1222 1221	0102 1110	1112 1111
27	1354 2221	2465 3323	2465 3323	0011 1111	1010 1211
28	2100 1222	3212 2222	3212 2222	1221 2222	2331 2123
29	0020 1112	2111 0213	2121 1213	1222 2332	2222 2223
30	0211 1221	2221 2222	2221 2222	3201 1110	2112 2221
31				0122 1110	1122 1111
					1123 1111
November			December		
D	H	K	D	H	K
1	0001 0100	1011 1111	1011 1111	0000 0110	1010 1211
2	0022 2111	0033 2101	0044 3111	0000 1121	1000 1221
3	0122 1201	1122 1112	1122 1222	1022 0111	1132 0211
4	1032 1211	2132 1112	2132 1212	0021 1111	0021 1212
5	1332 2121	2232 1223	2342 2223	2233 1310	1233 1211
6	1353 3211	1354 5212	1354 5212	1142 2200	1143 3211
7	4566 5322	5687 6533	5687 6533	1111 3122	1022 3122
8	2212 1110	3223 2211	3223 2211	4344 3321	5466 5222
9	0232 2210	1244 3222	1244 3222	1212 1110	1223 2111
10	1324 3321	2315 4532	2325 4532	0011 2110	1122 2111
11	3434 2311	2356 3322	3456 3322	0110 0110	0110 0111
12	1343 2210	1254 4211	1354 4311	1100 0110	1110 0210
13	2222 2211	1232 3212	2232 3222	0011 2111	1022 1211
14	1121 0210	2232 1221	2232 1221	2575 4333	3596 5454
15	0002 1121	0002 1212	0002 1222	3333 2220	3255 4321
16	0002 2210	1002 1211	1002 2211	1110 1120	1112 1211
17	1101 1110	1212 1211	1212 1211	1001 1110	1111 1111
18	0021 3323	1121 4415	1121 4425	0010 0111	0110 0212
19	4532 0110	5542 1111	5542 1111	0033 0121	1134 0122
20	0000 1110	1010 1211	1010 1211	1234 2120	1135 3220
21	2248 7321	1167 7532	2268 8532	0122 1110	1132 1101
22	2444 3222	2445 3332	2455 3432	2131 1010	1121 1201
23	3345 4321	2357 5532	3357 5532	2211 1111	1112 1111
24	0111 1221	1232 2322	1232 2322	3322 1211	3421 1211
25	1113 2321	1225 2332	2225 2332	0000 1120	1000 1111
26	1211 1211	1112 2222	1212 2222	0210 0121	1111 0111
27	1122 3211	2123 3222	2133 3222	0102 1212	0112 2213
28	1321 2211	1312 2211	1322 2211	2212 2221	2324 4343
29	0110 0111	1111 1111	1111 1111	2131 0322	2141 2222
30	0010 0011	1000 0110	1010 0111	2411 1321	3411 2311
31				0000 0110	1101 1211